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(54) Genomic DNA sequences of *Ashbya gossypii* and uses thereof

(57) The present invention relates to the terminal sequencing of random genomic fragments performed with the filamentous fungus *A. gossypii*, to the sequences obtained therewith and the use of the sequences for forensic identification, to characterize genes and gene organization of this ascomycete by inter-genomic comparison, to identify biosynthetic genes that can be used as selection markers, to isolate promotors and terminators

for application in a homologous as well as heterologous context, to find putative centromere containing clones, chromosome mapping, chromosome identifying, general information about chromosome organization and in addition to identify ORF containing SRS sequences with no homology to *S. cerevisiae* or any other organism which allows the identification of *A. gossypii* specific genes.

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Description

The present invention relates to genomic DNA sequences obtained from terminal sequencing of random genomic fragments of the filamentous fungus *Ashbya gossypii* and uses thereof.

The phytopathogenic fungus *Ashbya gossypii* is a filamentously growing ascomycete that was first isolated as a plant pathogen in tropical and sub-tropical regions. It infects the seed capsule of cotton plants (Ashby S.F. and Nowell W. (1926) Ann. Botany 40: 69-84) and has also been isolated from tomatoes and citrus fruits (Phaff H.J. and Starmer W.T. (1987) In "The Yeasts", Vol. I Rose A.H., Harrison, J.S. (eds), Academic Press, London, 123 ff, Dammer K.H. and Ravelo H.G. (1990). Arch. Phytopathol. Pflanzenschutz, Berlin 26: 71-78 Dammer and Ravelo, 1990). The infection of the seed capsule is caused by transmission of *A. gossypii* mycelium pieces or spores by stinging-sucking insects and causes a disease called stigmatomycosis.

Studies characterising the karyotype of *A. gossypii* have been performed (Wright, 1990; Wendland, 1993; Gaudenz, 1994, "The small genome of the filamentous fungus *Ashbya gossypii*. Assessment of the karyotype", Diploma Thesis, Department of Applied Microbiology, Biocenter, University Basel). It has been found using yeast chromosomes of precisely known length as size markers that the genome of *A. gossypii* has a total nuclear genome size of 8.85 Mb.

A. gossypii is systematically grouped to the endomycetales belonging to the family of spermothoraceae (Lodder J (1970) General classification of the yeasts. In: "The Yeasts", Lodder J. (ed.), North Holland Publishing Company, Amsterdam-London, 1ff Lodder, 1970). This classification is based on the observation that the spores that develop in hyphal compartments called sporangia look like ascospores, which are defined as endproducts of meiosis (Muller E. und Löffler W. (1971) Mykologie. Grundriß der Pilzkunde. DTV-Thieme, Stuttgart, 37 ff). However, in several respects, *A. gossypii* more closely resembles the budding yeast *Saccharomyces cerevisiae* than other filamentous fungi. For example, homologous recombination has been found to be the main mode of integration of transforming DNA (Steiner S. (1991). Diplomarbeit, Institut für Mikro- und Molekularbiologie der Justus Liebig Universität Gießen Steiner *et al.*, 1995), which is in contrast to findings made in many other filamentous fungi (reviewed by Fincham J.R.S (1989) Transformation in fungi. Microbiol. Rev. 53 (1): 148-170).

Additionally, sequence analysis of the *A. gossypii* *TEF*, *LEU2* and *THR4* genes (Altmann-Jöhl and Philippsen, 1996; Mohr, May 1997; Steiner and Philippsen, 1994) has identified high sequence homology to their functional homologues in *S. cerevisiae*. In addition, for the latter genes, syntenic (positionally conserved) arrangement of adjacent homologous ORF's has been found. The growing number of completely sequenced reference genomes, such as for example *S. cerevisiae*, offers new prospects for rapid comparative gene and genome analysis of so far less characterized organisms, such as *A. gossypii*, in parallel or even before the application of genetic techniques.

In view of the above, the present invention provides genomic DNA sequences obtained from terminal sequencing of random genomic fragments of *Ashbya gossypii*. The present invention particularly relates to genomic *A. gossypii* DNA sequences that are obtainable from the series of clones listed in Table 1 and presented in the attached Sequence Listing. Some of these *A. gossypii* sequences are homologous to *S. cerevisiae* sequences and to sequences from other filamentous fungi, e.g. ORF's specifically required for growth in filamentous fungi. Others of these *A. gossypii* sequences, such as those set forth in Table 2, have no homology to *S. cerevisiae* sequences, including sequences which have no homology to known sequences from any other fungus. The sequences of the invention find particular use in forensic identification, chromosome mapping, chromosome identification, and tagging of genes of known and useful function. Procedures such as these can easily be carried out by those of ordinary skill in the art.

The present invention also concerns chimeric genes comprising the sequences of the invention, recombinant vectors comprising such chimeric genes, wherein the vectors are capable of being stably transformed into hosts, as well as hosts stably transformed with such vectors. Preferred hosts are fungi such as *A. gossypii* as well as bacteria.

Furthermore, the present invention relates to the identification and characterization of *A. gossypii* ORF's based on the high homology of primary structures in *A. gossypii* and *S. cerevisiae* and the sequences obtained therewith. The present invention also relates to the use of the *A. gossypii* sequences provided in the Sequence Listing to characterize genes and gene organization of this ascomycete by inter-genomic comparison, to identify biosynthetic genes that can be used as selection markers, to isolate promoters and terminators for application in a homologous as well as heterologous context, to find putative centromere containing clones, general information about genome organization and in addition to identify ORF's containing single read sequences (SRS) with no homology to *S. cerevisiae* or any other organism, which allows the identification of *A. gossypii*-specific genes.

Encompassed by the present invention is a method of sequencing the termini of randomly picked *A. gossypii* shotgun clones to obtain linked pairs of genomic sequences. Said linked pairs of genomic sequences can be used for identification of open reading frames (ORFs) showing or lacking homology to functionally characterized or uncharacterized genes from *S. cerevisiae*, other fungi or other organisms. The sequence information provided herein in the attached Sequence Listing is sufficient to generate gene deletions in *Ashbya* by using, for example, by PCR-based gene targeting methods as described herein.

One of the main prerequisites for success in such an analysis is a relatively compact, organized genome. This is

required to obtain a maximum of information from the limited length of single read sequence (SRS) analysis. *A. gossypii* represents such a compact genome. The presence within the *Ashbya* genome of short intergenic regions and rare occurrence of introns increases the probability of finding matches to open reading frames (ORF's) in the majority of SRS's.

Thus one embodiment of the present invention is a method to identify and characterize *A. gossypii* ORF's by sequence comparison of their *S. cerevisiae* homologues without the requirement of complete sequence information for the *A. gossypii* ORF's.

Further encompassed by the invention is a method for characterization of an *Ashbya* gene, the knockout of which leads to a non-growth phenotype.

In a specific embodiment of the invention a method for characterization and validation of an *Ashbya* gene is provided comprising

- (a) inserting into *Ashbya* sequences of genomic pAG clones as provided herein in the attached Sequence Listing a chimeric gene construct comprising a selectable marker plus adjacent multiple cloning regions from a suitable cloning vector;
- (b) selecting clones carrying *Ashbya* sequences disrupted by the selection marker gene in a suitable host system;
- (c) transforming *Ashbya* with a disruption cassette according to (a);
- (d) revealing the disrupted open reading frame by DNA sequence analysis around the site of integration of the selection marker module and determining the orientation of the selection marker module;
- (e) determining whether deletion/insertion at the disruption site results in any phenotypic alterations.

A further embodiment of the invention relates to a method for characterization and validation of an *Ashbya* gene comprising

- (a) designing cassette for gene targeting comprising terminal Short Flanking Homology regions encompassing a selectable marker module;
- (b) transfecting the gene targeting cassette of (a) into *A. gossypii* and selecting transformants;
- (c) verifying correct gene targeting by applying suitable testing procedures;
- (e) determining whether deletion/insertion at the disruption site results in any phenotypic alterations.

Further comprised by the present invention is a method for characterization and validation of an *Ashbya* gene involving a triple selection marker module which method comprises

- (a) inserting of a reporter, a selectable marker and a strong promoter, which is preferably a regulatable promoter, in front of the start codon of a coding sequence of interest (promoter exchange mutant) within the *Ashbya* genome
- (b) applying potential antifungal agents for growth to the promoter exchange mutant of (a) and to a wild-type strain, respectively;
- (c) identifying a growth or non-growth phenotype of the strong promoter exchange mutant.

Within this novel process any DNA encoding a selectable marker can be used that, upon transformation, is capable of conferring a resistance phenotype to *A. gossypii* or any other advantage based on which the transformant can be separated from non-transformed clones such as, for example, ScLEU2, kanMX, kanSC or GEN3.

Promoters that can be suitably used as part of the triple selection marker module are those that are capable of functioning in *Ashbya* and in heterologous systems such as, for example, *S. cerevisiae* or *K. lactis*. Preferred within this invention is a heterologous promoter from *S. cerevisiae* or *K. lactis*, which is not only to be qualified as a strong promoter also within the *Ashbya* system but is also well regulatable in *Ashbya*.

A reporter that can be suitably used within the triple selection marker module is one that is easily detectable such as, for example, the green fluorescent protein.

If the activity or expression of the gene product is inhibited by one or more agents, the inhibitory effect for growth will be overcome in the strain overexpressing the gene product. If the reporter expression, controlled by the wild-type promoter, is not changed one can conclude that the agent inactivates the gene product and not a transcription factor or signaling factor for expression of the gene product. If the reporter expression is much lower, the agent most likely affects the expression of the gene product and not the gene product itself.

The present invention further relates to a DNA molecule comprising a DNA sequence selected from the attached Sequence Listing which molecule is validated as a potential target in a pesticide screen based on the use of said molecule in a gene disruption method as described herein.

Further encompassed by the present invention is the use of sequences selected from the attached Sequence Listing to identify substances having antifungal activity; the use of sequences selected from the attached Sequence

Listing to identify substances having pesticidal activity; the use of sequences selected from the attached Sequence Listing to identify biosynthetic genes that can be used as selection markers; the use of sequences selected from the attached Sequence Listing to identify promoter and terminator regions including downstream non-translated regions and up-stream nontranslated regions, respectively; the use of sequences selected from the attached Sequence Listing to identify putative centromere-containing clones; the use of sequences selected from the attached Sequence Listing to identify ORFs containing SRS sequences with no homology to *S. cerevisiae*; the use of sequences selected from the attached Sequence Listing to identify ORF's containing SRS sequences with no homology to any other organism, which allows the identification of *A. gossypii*-pecific genes; the use of sequences selected from the attached Sequence Listing to characterize genes and gene organization of this ascomycete by inter-genomic comparison; and the use of sequences selected from the attached Sequence Listing to identify and characterize the genome organization of *Ashbya gossypii*.

In particular, the present invention encompasses the use of a DNA sequence selected from the Sequence Listing to identify *Ashbya gossypii* promoter and terminator regions including downstream non-translated regions and up-stream nontranslated regions, respectively.

The invention further relates to the use of a DNA sequence selected from the Sequence Listing wherein a putative promoter region is identified by sequence alignments and the ORF of a genetic selection marker plus start codon and terminator is placed downstream of said putative promoter region.

Further comprised is the use of an a DNA sequence selected from the Sequence Listing and variants thereof in a screening method for identifying compounds capable of inducing broad spectrum disease resistance in plants.

The suitability of the DNA sequence to be used in such a screening assay is determined in gene disruptions in the *Ashbya* genome. For that purpose a disruption cassette may be used comprising a selectable marker plus adjacent multiple cloning regions from a suitable cloning vector.

In a further embodiment of the invention a DNA sequence selected from the Sequence Listing or parts thereof is used within a gene targeting procedure involving short target sequence homologies added to both ends of a DNA molecule encoding a selectable marker.

In a further embodiment according to the invention a DNA sequence selected from the Sequence Listing may also be used for distinguishing among different species of plant pathogenic fungi and for distinguishing fungal pathogens from other pathogens such as bacteria.

It is one embodiment of the present invention to use sequences selected from the attached Sequence Listing to identify promoter and terminator regions including downstream non-translated regions and up-stream nontranslated regions, respectively. In many cases, the attache sequences allow to locate the precise boundaries between open reading frames and promoter or terminator regions either from the first single read or after additional sequencing. The promoter and terminator regions so obtained are also part of the present invention.

In particular, sequence alignments can reveal 5' ends of open reading frames plus adjacent sequences of their putative promoter regions. By placing the ORF of a genetic selection marker plus start codon and terminator downstream of this putative promoter sequence, one can identify and use novel *Ashbya gossypii* promoters.

The promoter and terminator regions so obtained are also part of the present invention.

The DNA sequences provided in this application are especially suitable to be used in gene disruptions in the *Ashbya* genome. This can be performed, for example, using classical procedures involving gene disruption cassettes.

Said gene disruption cassettes essentially consists of a selectable marker plus adjacent multiple cloning regions from a suitable cloning vector. This transformation selection module upon expression of the selection marker gene preferably leads to resistance in yeast and filamentous fungi and also in bacteria such as, for example, *E. coli*. This module is inserted into *Ashbya* sequences of genomic pAG clones as provided herein in the attached Sequence Listing. To this purpose the selectable marker is released from the cloning vector by cleavage with a suitable restriction enzyme such as, for example, BamHI, Sall or XhoI. It is ligated into cloned *Ashbya* DNA cleaved with a corresponding restriction enzyme that is, for example either BglII, XhoI (partial) or Sall (partial), respectively. Clones carrying *Ashbya* sequences disrupted by the selection marker gene are selected in a suitable host system such as, for example, *E. coli*. DNA sequence analysis around the site of integration of the selection marker module (i1 and i2sequences in the attached *Ashbya* data base) reveal the disrupted open reading frame and determine the orientation of the selection marker module.

A selection marker that is especially suited to be used within the scope of the present invention is kanMX0 expressing G418 resistance in yeast and filamentous fungi and kanamycin resistance in *E. coli* (International Patent Application No PCT/EP 91/01116; Steiner *et al*, 1995).

Especially preferred within the scope of the present invention is a new PCR-based *Ashbya* gene targeting procedure provided herein. Gene targeting in *Ashbya* relies on homologous recombination in this fungus (Steiner *et al.*, (1995) Genetics (in press 1995)). Short target sequence homologies added to both ends of a DNA molecule encoding a selectable marker are sufficient to mediate sequence specific gene targeting in *Ashbya*. The length of the target sequence homologies is preferably in the range of between about 20 to 80 nt, more preferably between 35 and 60 nt.

and most preferably is about 45 nt. Within this novel process any DNA encoding a selectable marker can be used that, upon transformation, is capable of conferring a resistance phenotype to *A. gossypii* or any other advantage based on which the transformant can be separated from non-transformed clones.

The fragment designed for gene targeting thus carries terminal Short Flanking Homology regions encompassing the selectable marker module. These fragments are transfected into *A. gossypii* by a suitable method such as, for example, electroporation and transformants are selected. Verification of correct gene targeting is achieved by suitable testing procedures such as, for example, PCR testing the presence of the new junctions between target DNA and integrated marker using specific verification primers. Verification of the gene targeting can also be performed by DNA-hybridization experiments.

In using verification primers it proved advantageous to use specific primer pair combinations. One pair of verification primers, for example, may be derived from the open reading frame of the selectable marker gene. Whereas a second pair of primer sequences can be derived from the single read sequence and correspond to regions upstream and downstream, respectively, of the homology regions used for the targeting process. Using this PCR-based targeting approach sequences can be manipulated that are approx. 150 nt in length. A criterium matched by all single read sequences of the attached *Ashbya* database. This is of major advantage considering classical methods of gene disruption that are laborious and require cloning steps to incorporate a selectable marker within rather large flanks of surrounding target sequence homology.

After clonal purification (spore isolation) it can be easily determined whether deletion/insertion at the targeted locus results in any phenotypic alterations such as, for example, a reduction or abolition of fungal growth, decrease or loss of viability, etc. Once such a phenotypic alteration can be established for one of the *Ashbya* disruption or knockout mutants it is further examined whether said mutant qualifies as a target to be used in a pesticide screen, preferably a fungicide screen.

Owing to the provision within the scope of this invention of a novel and powerful gene disruption process, there is no longer a need to know the exact biological function of the protein product encoded by a gene comprising or, in the alternative, being flanked by one of the *A. gossypii* DNA sequences provided herein.

Those sequences that have no homology neither to *S. cerevisiae* nor to any other organism and are thus *A. gossypii* specific are especially useful, as they are promising candidates to be used in a pesticide screen for identifying substances which have pesticidal and, preferably, fungicidal activity, but are non-toxic to other organisms especially mammals. Though nothing is known about the exact biological function of the genes comprising said DNA sequences or being flanked by said DNA sequences, they are nevertheless especially valuable owing to their being unique to the fungal pathogen. Thus, any pesticidally active substance being identified in a pesticide screen involving one or more of those sequences have a high potential of exhibiting a biological activity that only affects *A. gossypii* and possibly other pathogenic fungi having (yet unidentified) homologous sequences, but do not interfere with any vital functions in other organisms such as, for example, mammals.

It is thus a further embodiment of the present invention to identify genes within the *A. gossypii* genome which are potential targets for the action of pesticidally active compounds, but especially fungicidally active compounds, by using those *Ashbya* sequences identified in the Sequence Listing corresponding to ORF's with 100 and more codons showing less than 20% homology to a yeast gene classified as 3 or as "none".

ABBREVIATIONS

LIPS Linked Pairs of Sequences
MCS Multi Cloning Site
ORF Open Reading Frame
SRS Single Read Sequence
RP Reversed Primer
UP Universal Primer

DESCRIPTION OF TABLE 1 AND THE SEQUENCE LISTING

The sequences in the Sequence Listing correspond to the PAG names in Table 1. Thus, Table 1 describes each sequence in the Sequence Listing in six columns: "PAG name", "Yeast", "Gene Name", "Brief Description", "Homology Class", and "Additional Comments", the details of which are as follows:

PAG Name: Number of *Ashbya gossypii* plasmid clone (e.g. PAG1001) followed by RP (sequence obtained using the reverse primer) or by UP (sequence obtained using the universal primer) or 11 or 12 (internal sequences obtained after insertion of kanMX0 in the *Ashbya* DNA at a BglII, XhoI or BamHI site and sequencing in both directions from these sites using sequencing primers binding to the 5' and 3' region of kanMX0). CRP and CUP mark sequences from rare chimeric genomic clones, the ends of which map to different genomic regions. For a few clones, only RP or UP

sequences are listed. 5% of the plasmid clones carry ribosomal DNA sequences, as concluded from high sequence homologies of their RP and UP sequences to ribosomal DNA of *S. cerevisiae*. These overlapping clones representing tandem copies of the 8.2 Kb *Ashbya* ribosomal DNA repeat are not listed in the *Ashbya* genome data base. The PAG name is set out above each individual sequence in the Sequence Listing.

Yeast name: Systematic name of *S. cerevisiae* gene with highest homology to the *Ashbya* sequence, as determined by the search algorithm. For some *Ashbya* sequences, two systematic names are listed because they carry information from two *Ashbya* ORF's with homology to *S. cerevisiae* genes. Sequences of high (significant) homology are distinguished from those with low (insignificant) homology by the classification in column 5 (Homology Class). If no systematic gene name is listed, the *Ashbya* sequence shows either no homology to *S. cerevisiae* genomic DNA or it is mitochondrial DNA (around 80% AT base pairs and homology to genes coded by the mitochondrial genome).

Gene name: *S. cerevisiae* gene name used in the literature.

Brief Description: Brief description of the *S. cerevisiae* gene showing highest homology to the *Ashbya* sequence.

Homology Class (HC): Significant homologies to *S. cerevisiae* genes are classified as 1. Intermediate homologies (about one quarter to one third identity on the amino acid level) are classified as 2. ORFs with 100 and more codons showing less than 20% homology to a yeast gene are classified as 3. *Ashbya* sequences lacking ORF's of 100 and more codons and showing less than 20% sequence homology to *S. cerevisiae* are classified as 4.

Additional Comments: Useful comments concerning (a) presence of promoter or terminator sequences as judged by the presence of 5' ends (N-terminus) and/or 3' ends (C-terminus) of ORF's and adjacent DNA, (b) identification of novel *Ashbya* ORFs (minimum size in nucleotides (nt) as only ORF in frames +1 to +3 or -1 to -3 and lacking significant homology to yeast and fungi, (c) synteny, (d) reason for changes of ORF classification, (e) matches to tRNA genes, (f) presence of intron, judged from interruption of regions of high level of protein homology and confirmed, in addition, by applying the *S. cerevisiae* intron-recognition rules, (g) high CAI (codon adaptation index) marking a well expressed gene and with that a strong promoter. Further abbreviations are explained in the MIPS yeast data base.

EXAMPLES

Example 1: Construction of a Genomic Library

A.) Preparation of Partially Digested DNA

Genomic DNA of *A. gossypii* (strain ATCC10895) was partially digested with *Sau3A* and separated on a low melting agarose gel. Two regions were cut out off the gel: A first the gel piece containing DNA fragments in the range of 3.5-6 kb in length and the second gel piece from containing DNA fragments in the range of 5-8 kb in length.

B.) Ligation and Cloning (standard procedures and media as described in Sambrook et al Cold Spring Harbor Press, 1989)

Sau3A fragments of different sizes, derived from the partial digestion of the genomic DNA, were cloned into the yeast shuttle vector pRS416 (Sikorski and Hieter, 1989, Genetics 122: 19-27). For this purpose pRS416 was cut with *Bam*HI. The 5'-phosphate group of the linearized vector (4.8 kb) was removed with Calf Intestinal Phosphatase to minimize the recircularization of the vector during ligation. DNA of the two size fractions, one with fragments in the range of 3.5-6 kb and the other with fragments in the range of 5-8 kb were cloned separately into the vector. The ligation samples were separately transformed into the *E. coli* strain XL1-blue yielding together approximately 21,500 colonies on 55 plates. 80 % of the colonies (17,000) were white indicating insertion of a *A. gossypii* DNA. The 21,500 colonies derived from the two size fractions were combined by washing each plate with 2 ml full medium (2*YT). Approximately 120 ml cell suspension were obtained. 100 ml of the cell suspension were used to inoculate once a 1 litre culture for the isolation of plasmid DNA. The remaining 20 ml cell suspension were mixed with 5 ml glycerol and stored divided into two aliquots at -70 °C. The ratio of white to blue colonies stayed stable after growth in selective full medium ON. The isolated plasmid DNA was purified over a caesium chloride density gradient and separated on agarose gel. The total yield of plasmid DNA isolated from the 1 litre culture was approximately 5 mg.

All plasmids of the genomic library had a common structure based on plasmid pRS416. The average insert length was approximately 4 kb. The genomic library with 17,000 recombinant clones carrying an insert therefore covers 8 times the 9.7 Mb *A. gossypii* genome (Gaudenz, 1994).

Example 2: Sequence determination

A.) Sequencing the partial Sau3A fragments at both ends

5 Approximately 350 to 450 ng of plasmid DNA was taken for cycle sequencing (T3 and KS primer or similarly binding primers) with the Peikin Elmer AmpliTaq FS PRISM™ Ready Reaction Dye Terminator Cycle Sequencing kit using the protocol of the manufacturer (addition of 1% DMSO to the sequencing reaction, 95 °C denaturing temperature) and the 373A automated sequencing system (Perkin Elmer) for electrophoresis and fragment detection. SRS's were named with the plasmid name and the suffix UP or RP was added to mark the side of the insert from which the sequence was
10 derived regardless, of which primer present at this side of the multiple cloning site was actually used.

B.) Sequence processing

15 Concerning the pAG1001 to pAG1000 and 1201 to 1700 series of clones, the vector part of the sequences was removed, obvious base-calling errors were edited and, depending on the quality of the sequence, an individual end point was determined. SRS of the pAG1001 to pAG1100 and 1201 to 1700 series were not further edited and were taken as provided. All sequences were transferred on a VAX system and put into GCG format. Query sequences were translated in all six reading frames and run in a BLAST search (Altschul *et al.*, 1990) against MIPS data base at <http://www.mips.biochem.mpg.de/mips/yeast/>)

20 Alignment of sequences from mitochondrial or rDNA clones was performed with the SeqMan module of the Lasergene software package (DNASTAR, Ltd., London, UK) on a Macintosh Power PC.

Example 3: Classification of the BLAST search results

25 In the evaluation of the BLAST results, four different categories of homology class (HC) were used. HC 1 and 2 represent SRS's showing a significant hit to an *S. cerevisiae* ORF. The border between category 1 and 2 was made at approximately 40 % identity in the aligned protein sequences. SRS's showing no convincing homology (around 20 % identity and lower) but with an possible open reading frame (with or without ATG) of at least 300 nt length were assigned to HC 3. All SRS's with no significant homology and no possible open reading frame of at least 300 nt were
30 put into HC 4. However, the described values for classification were not applied as strict rules. Factors such as length of homologous block, in cases of several blocks the overall homology, relation of scoring hit to possible open reading frames, position of homologous block within the *S. cerevisiae* protein sequence (for example very N- or C-terminus), a biased sequence, etc. were taken into account for classification.

35 Almost 30% of the clones listed in the attached Sequence Listing show synteny with *S. cerevisiae*. Thus, *Ashbya* genes of interest for antifungal screening assays (e.g. homologues of essential fungal or yeast genes) can be found due to positional conservations (synteny) when RP and/or UP sequences match adjacent *S. cerevisiae* homologues. Applying the rules of ancient synteny, the frequency of such predictions increases by a factor of 2 or even more.

Over 5% of RP and UP sequences identified open reading frames of 100 and more codons with no apparent homology to sequences in data bases. In Table 1, they are marked as class 3 or 4. These sequences are therefore
40 candidates for novel lead target genes. Fungal pathogens (e.g. *Candida albicans* or phytopathogenic fungi) carrying homologues of these genes can be treated by compounds which were developed based on assays using the *Ashbya* lead target.

Example 4: Use of the *Ashbya gossypii* sequences for isolation of *Ashbya gossypii* promoters

45 Sequence alignments can reveal 5' ends of open reading frames plus adjacent sequences of their promoter regions. By placing the ORF of a genetic selection marker plus start codon and terminator downstream of this promoter sequence, one can identify and use novel *Ashbya gossypii* promoters. For example, an ORF of 67 amino acids was identified on the SRS of pAG1245rp. This ORF shows 98 % homology to the *S. cerevisiae* Ribosomal Protein S28.e.
50 12 in a BLAST search (Altschul *et al.* (1990) J. Mol. Biol. 215: 403-410). The ORF (AgRPS33B) for the putative *A. gossypii* Ribosomal Protein is located from 195 to 395 on the SRS with 700bp, leaving 300bp for the promoter. Based on these findings plasmid pAG1245 may be used for isolation of a novel promoter using the AgLEU2 marker in PCR-targeted gene exchange in *S. cerevisiae*.

A.) PCR synthesis of a DNA fragment carrying the AgLEU2 marker

Two primers, RP5 and RP3, are selected for the amplification of the AgLEU2 gene. Both primers are 60 mers showing beside 20 bp homology to AgLEU2 in addition to 40 bp homology to pAG1245.

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Primer RP5: 5'TTT TAC TAG ATA TTT TAT ATC CAA GAA GCA ATA GAT CAA AAT GGC TGC GGT AAA GAG AAT 3'. The 40 bp at the 5' end of RP5 are homologous to 40 nucleotides in front of the ATG start codon of AgRPS33B. The 20 bp at the 3' end of RP5 are homologous to the first 20 nucleotides of the AgLEU2 ORF, including the ATG start codon.

5 Primer RP3: 5' CTG GAG CTC CAC CGC GGT GGC GGC CGC TCT AGA ACT AGT GCG CCA ACG TTG CGA GAT ATA 3'. The 40 bp at the 5' end of RP3 are homologous to 40 nucleotides in the pBlISK+ multiple cloning site (Alting-Mess M. A. and Short J.M. (1989) Nuc. acids Res. 17(22): 9494) of pAG1245 covering the SacI, SacII, Noll, EagI, XbaI and SpeI restriction sites. The 20 bp at the 3' end of RP3 are homologous to 20 nucleotides in the AgLEU2 terminator region (1261-1281).

10 Sequence carrying the AgLEU2 coding region and the AgLEU2 terminator sequence (the ATG start codon of AgLEU2 is written in bold letters and the stop codon (1117-1119) is underlined):

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(1) **ATGGCT GCGGTAAAGA GAATTGTGGT GCTTCCGGGC**
GACCACATCG GCCGCGAGGT CGTGGAGGAG GCGGTGAAGG TGCTTGGCGC CGTGGAGCAG AGCCTGTCCG ACGTGCACAT
TGACTTCCAG TACCACCTGG TCGGCGGGC GGCCATCGAC GCCACGGGT CGGCGCTGCC GGACGAGCGC CTGGGCGCGG
CGAAGGAGGC GGACGCGGTA CTGCTGGGG CAGTTGGCGG ACCGAAGTGG CAGGGCGGCG CCGTCAGGCC GGAGCAGGGC
CTGCTGAAC TGAGACAGGA GTTGGGCGTG TACGGGAACC TGCGTCCCTG CAACTTTGCG GCGGACTCGC TGCTCGAGCT
GTGCGCGCTG CGCCCCGAGA TTGCCCGGGA TACCGATATT ATGGTGGTGC GGGAGCTGCT GGGCGGGAGC TACTTCGGCG
AGGCCACGA GGACGAGGGC GACGGAGTCG CGTGGGACAC CGACAAGTAC ACCGTGAAGG AGGTGCAGCG CATCGCGCGC
ATGGCGGGGT TCCTGGCTCT GCAGCAGAC CCGCCGCTAC CTGTGTGGTC GCTGGACAAG GCGAACGTCC TGGCCAGCTC
CCGCTGTGG CGCAAGACCG TGGAGGAAC CTTCAGAGT GAGTTCCCAA ACGTGCAATT GCAACACCAG TTGATAGATT
CAGCTGCAAT GATTTGGTC AAGAACC CGGCGTTCAA CCGGTCGTG GTGACGAGCA ACATGTTCCG GGACATTATC
TCTGACGAAG CGTCGGTGAT CCCAGGCTC CTAGGTTGC TGCCATCGGC CTCGCTCGCG TCTTTGCCGG ATAGCAAGAG
CGCCTTTGGC CTCTACGAGC CCTGCCACGG CTCTGGGCC GATCTGCCG GATCGGAAGC GAACCCGATC GGATGCATCC
TCTCTGCTGC CATGATGCTG AAGTTGTCTG TGAACATGGT TGCTGCCGGC GAGGCGGTG AGCAGGCAGT GCAGGAGGTG
TTGGACTCGG GAGTCAGAAC GGGCGACCTG CTCGGCTCGA GCTCCACTTC GGAGGTTGGC GACGCCATTG CGCTTGCAGT
TAAGGAAGCC TTGCGCAGGC AATCCGCAGC TGGTCTGAGC TAGCCTCGAG GACCCCTTC TTTAGACTAT TCTACTCTTA
TGCACGTAAA AAATTCTAGG AAATATGTAT TAACTAGGAG TAAATAACC GGCTAGTGGC ATTCATATAG CCGTCTGT
ACATCTACAT CACACATTTC GAGTGTATAT CTGCAACGT TGGCG (1281)

The PCR reaction is performed in a Thermocycler from amers Biotechnology. As a template, the isolated 3.1 kb BamHI/Sall fragment from plasmid pAG150 (Mohr Ch. (1997) Ph.D. Thesis, Institute of Applied Microbiology, University

of Basal) carrying the AgLEU2 gene is used. 100 ng template are added for a 50 µl reaction volume supplemented with 0.2 mM of dATP, dCTP, dGTP and dTTP. 5 µl of 10*Thermo Pol Buffer (Biolabs). The concentration of primer RP5 and primer RP3 in the reaction is 1 µM. After the hot start, 1 µl enzyme mixture (Taq Polymerase (Pharmacia) and Vent Polymerase (Biolabs) 5:1) is added. PCR is executed under the following conditions: hot start 2 min at 94 °C, 30 cycles of 30 sec at 94 °C, 30 sec at 55 °C and 2 min at 72 °C and finally 4 min at 72 °C.

Analysis of the PCR reaction on a 1% agarose gel shows a concentration of 100 ng/µl for the 1.36 kb PCR product, which can be used to transform *S. cerevisiae*.

Example 4.2: Transformation of *S. cerevisiae*

For the direct exchange of the ORF of AgRPS33B on plasmid pAG1245 in *S. cerevisiae* with the AgLEU2 marker via homologous recombination a cotransformation is carried out. As a recipient strain, YP98 with the phenotype a, ura3-52, lys2-801^{amber}, ade2-101^{ochre}, trp1-Δ1, leu2-Δ1 (Sikorski R.S. and Hieter P. (1989) Genetics 122: 19-27) is used. Transformation is performed according to Gietz et al. (1992) Nuc. Acid Res. 20 (6): 1425.

2 µg plasmid DNA of pAG1245 and 2 µg PCR product are cotransformed into strain YP98. Plasmid pAG1245 carries the CEN6/ARSH4 cassette and the URA3 gene providing replication and selection in strain YP98. Recombination between the 40 bp at the ends of the PCR product, which are homologous to parts of the pAG1245p SRS, leads to excision of the AgRPS33B open reading frame and integration of the AgLEU2 marker gene. Transformants are double selected for URA⁺ and LEU⁺ on SD-minimal medium supplemented with lysine, adenine, tryptophan and lacking uracil and leucine (Sikorski R.S. and Hieter P. (1989) Genetics 122: 19-27). As a positive control, 2 µg plasmid DNA of pRS415 and pRS416 (Sikorski R.S. and Hieter P. (1989) Genetics 122: 19-27) were cotransformed. Plasmid pRS416 carries the CEN6/ARSH4 cassette and the URA3 gene, and pRS415 carries the CEN6/ARSH4 cassette and the LEU2 gene for replication and selection. Transformants are also selected on SD-minimal medium supplemented with lysine, adenine, tryptophan and lacking uracil and leucine. As a negative control, 2 µg PCR product are transformed to exclude the possibility of genomic integration of the AgLEU2 marker gene. Selection for the negative control is carried out on SD-minimal medium plates supplemented with lysine, adenine, tryptophan, uracil and lacking leucine. After 2-3 days of incubation, the first transformants appear, and after 5 days the transformation efficiency is calculated. The negative control, only transformed PCR product, has no transformants. The positive control, pRS415 and pRS416, has a transformation efficiency of 300 transformants/µg DNA. The cotransformation of pAG1245 and the PCR product shows a transformation efficiency of 10 transformants/µg DNA. For verification of the integration of the AgLEU2 marker gene into pAG1245, the new plasmid, which is named pAG1245-1, is isolated from the transformants and further investigated.

C.) Verification of the integration of the AgLEU2 marker into pAG1245

Genomic DNA from several independent *S. cerevisiae* transformants harboring the newly generated plasmid pAG1245 is isolated according to Philippsen P. et al., (1991) Methods in Enzymology 194: 169-182, Guide to Yeast Genetics and Molecular Biology, Academic Press.

The genomic DNA is transformed into the *E. coli* strain XL1-blue (Bullock W.O. et al., (1987) Bio Techniques 5 (4): 376-378) using the protocol described by Dower J.W., (1988) Nuc. Acids Res. 16: 6127-6145). Plasmid DNA of pAG1245-1 is isolated and integration of the AgLEU2 marker gene is verified via analytical PCR. A primer pair with one primer located in the multiple cloning site and one primer in the promoter region of AgRPS33B indicates excision of the ORF of AgRPS33B and integration of the AgLEU2 marker gene. For this purpose, two primers RP1 and RP2 are selected. RP1 (5'CAT GAT TAC GCC AAG CGC GC 3') is homologous to 20 nucleotides in the pBlISK+ multiple cloning site (Alling-Mess M. A. and Short J.M. (1989) Nuc. acids Res. 17(22): 9494) in pAG1245 adjacent to the Reverse Primer binding site. RP2 (5'CCA AGC ACA TTT CAC CTG CG 3') is homologous to 20 nucleotides to the pAG1245 SRS from 521-540. With this primer combination, the expected PCR product is 0.6 kb for pAG1245 and 1.5 kb for pAG1245-1. PCR reactions were performed using plasmid DNA from pAG1245 and from pAG1245-1, originated from two independent *S. cerevisiae* transformants, as templates. 100 ng template are added for a 50 µl reaction volume supplemented with 0.2 mM of dATP, dCTP, dGTP and dTTP. 5 µl of 10*Thermo Pol Buffer (Biolabs). The concentrations of primer RP1 and primer RP2 in the reaction is 1 µM. After the hot start, 1 µl enzyme mixture (Taq Polymerase (Pharmacia) and Vent Polymerase (Biolabs) 5:1) is added. PCR is executed under the following conditions: hot start 2 min at 94 °C, 30 cycles of 30 sec at 94 °C, 30 sec at 55 °C and 2 min at 72 °C and finally 4 min at 72 °C.

Analysis of the PCR reaction on a 1% agarose gel shows a band at 0.6 kb for pAG1245 and a band at 1.5 kb for pAG1245-1. This result demonstrates the right integration of the AgLEU2 marker gene in pAG1245.

Example 5: Isolation of new fungal DNA elements based on synteny of linked sequence pairs

With the initial bi-terminal SRS's of the DNA insert of plasmid PAG1489 (PAG1489RP and PAG1489UP), synteny

is discovered to the centromeric region of *S. cerevisiae* CEN2. This synteny reveals homology to the yeast genes YBL003c and YBR001c. The complete double stranded insert sequence shows synteny to the yeast genes YBL003c (97% identity), YBL002w (94% identity), YBL001c (69% identity), and YBR001c (73% identity) as determined by BLAST searches to the Yeast Genome Database (Altschul, Stephen F., Gish, Warren, Miller, Webb, Myers, Eugene W., and David J. Lipman (1990). Basic local alignment search tool. *J. Mol. Biol.* 215:403-410). In yeast, the centromere of chromosome II is placed between YBL001 c and YBR001c. Homologous sequences to the yeast centromere II are found in the *A. gossypii*. DNA sequence of PAG1489 between positions 2900 to 3200. This homology comprises the essential Centromere DNA Elements CDEI, CDEII, and CDEIII. Making use of the synteny of RP and UP sequences of a single pAG-plasmid to a reference genome, the detection of potential antifungal drug targets can be inferred in the same way as the centromere on PAG1489. In addition, using *Ashbya gossypii* as a reference genome, potential antifungal drug targets of other pathogenic fungi can be isolated.

Sequence of pAG1489 insert DNA :

GATCGTAACATTGCCCAATAGCTTGTTTAGCTCGTCATCGTTTCTGATGGCTAGCTGTAGATGTCTT
GGGATGATTCTGGTCTTCTTGTTGTCTCTGGCGGCGTTACCGGCCAACTCTAGGATTTTCGGCGGCCA
AGTATTCTAGCACAGCGGTTAGGTACACAGGCGCGCCCGACCCGATTCTCTGTGCGTAGTTGCCCTT
TCTGAGCAATCTGTGGACTCTACCGACAGGGAAAGTCAAACCGGCCTTAGCCGATCTCGACTGCGAA
GCCTTGGCGGCAGAACCCAGCTTTACCTCCTTTACCAGACATTATTTGTGTTGTGTGTGTGTGTGTGT
GTTTAGTGTGAACTGCGTGTGCTATGAGAAAACACTACGCTGAAACTGCTAAATAATCCAGACAGGT
CCCCCACCGCCAAAGGATCCACGCTATACTTCTCTCTACATATTTATACTTGTCTTTTGCCTTCTA

ATCCTCGATCGTACGCGTCTGACGCTTCAACAGACGCTTCACCTAGACGCTCGACCTGTGCGGCCTG
 GTTTTTTCGCATGACATGTCCGTGCTGGTTTTTTCGCGCTGAAAAGGAAAGCGCGTGGCTCCCAGCA
 5 CCAGAGCCGTACTAGCTCTTTCGCGTGTCTTATGTGCACGCGAAATTTTCATACTGTAGAGTGT
 GCCATCAGCTTCACAGAGTACAAACGGTAGGCGAGTGGATACGCGTCTTGTAGCCGGACGTGAATGG
 CAGAACTTTTTGGCAGTCGCGTAATCTTAGATTGAAAGTATTTAAGTGAACGTATAAAACAAAAGT
 TCGGGCTGAAGAGGACCTCTTTTGGCGSTCTGCTACTTCCCAGTTATCTGTTGGATACTAAGCATAT
 10 CGAACTCTAATTGCAATTCTAAAGATGGCACCAAAGGCTGAGAAGAAACCTGCTTCCAAGGCCCCAG
 CGGCAAAGAAGACCACTGCTTCTACCGACGCTTCTAAGAAGCGGACGAAGACTAGAAAAGGAGACCTA
 CTCCCTTTACATTTACAAGGTTCTTAAGCAGACTCACCCAGATACTGGTATCTCGCAGAAGTCTATG
 TCCATTTTGAACTCGTTTGTGAACGATATCTTTGAGAGAATCGCGTCTGAGGCATCCAAGCTTGCGG
 15 CCTACAACAAGAAGTCTACGATCTCTGCTAGAGAAAATCCAGACTGCTGTCAGATTGATCTTGCCCCG
 TGAGCTAGCCAAGCACGCCGTGTCTGAGGGTACCAGAGCTGTTACCAAGTACTCGTCTTCTACCCAA
 GCCTGAATGGAACCTATTCTTAGAATGAAAGAACTTCCTTCAAGAAGGTTCTCGTCAGCTAGTGCTT
 20 GTGGGACCCGCCTCTTATTCAGAGCAGCTGCGGCAGAGCGGTATGTGGTACGTTCCGTTTCATCAT
 TTTGTATATTAGTACATGTAGAAATAGGGTTTTCTGGTTTTATAATTCCGGTATAAATTCCAACGTA
 ATGTATATTAGATAAGTTTTAACTAGTAATCGGAGAGCTTCTTTTCAACCACGTCTACCTTGCTTT
 GCGCAGTCTGCTGTTTGTCTGTTCTAGTTCCGAGCCTCATTTCGGTGTGGATTCTAACGTATCCCAA
 25 TTCGTGGCTGTATTCTGTCAACTGGCCGATGAGGCTCATGACCTCGTCCCAAGGGCCCTCAATCGTC
 GTTCCAAAGCTGTGCATAGTGCTTTTCAAGTGACTCTCCCTAATTCGTTTCTCAATCTTGGTGACAT
 AGTCTGAGACACTTGGTGAGCTAGTACCTAGCTATGATTCAAAAGTTTAGTATATTGTTTTATATAT
 GCAGCTGGAGATGTGAACATACCGGCACCATGCAATGTCCACTAATGTGTGCAGCTTCGACATTTT
 30 GATTTCTACCTTCAGAGTATTGGAATATGTTCTTGTATGTAACGTCTACTAATTTTCTGGTTTATAT
 CGCTGATCTTAAGGGAGATAATTTTCGTTTACCCATCACACAGAAGTTTTAAGTACAAAACCTGTCCC
 CAGATATAGCAAGTCATCAATTCAGGTATAATTGGTGTGCATGCTAATTTGAAGGGCTGTTATATAG
 35 TTGAAGTTGTTCTTTTGGCATTGAGCCAAATTTGGATTCTATTTCAGTAGTATTGAACATCAAGTCTC
 CAAAGCTGAAGTCTGAAGCAAAACATCTCAATAGCTATAGAACTCTAGCAAACAACAGACCAGAGCT
 TATATCATGACACATTATAAGCTCAGCTATTACTCTGAGTGATAGAGTGACCCCTCAATTAGTTGGTT
 CATTTTATATATAAAAATATAAACTATAGCTATTTCAAATGACTACTAACTAATACGAGAGAAGAA
 40 AACAAATTAAACACGATGGTCTACAGATAGCTTGAAAGAGACACTAAGAGAAATTTAGGAAACAGT
 TCAGAAAAATAGCCATTTCAGCTCTACAGCTCTCTTTATTATCAAGAGTACAGTTTCTTTCACTAATAT
 CGCTTAATTAATTATATTTCTTGCCATTAAATGCGACGGTGACGGGATAACAATTTTGGCAATTCT
 TCATATTTTGATTTAAAAAACAATTTACCAGAATTAGACGAAATAGTCGCTTACTACAAACAG
 45 GTTCAGCCACTGGATAAATCTCATAGTTTAAAAATATTGAGTTACAGAAATTGGCTTACAGAAAGCAC
 TAGCGATTAGGCCATTTGCCATTGATTTAAACATGAACCTAACGAACCTCCATGAATTACAATAACCA
 CAAATTTAACCGGACAATTAATTTTATGTAGCAGGCTCTGCCATGGGAATAGCTTTACGTGAACAGG
 50 ATATTTAACGTATATCCTTGTTATGATAAAGACTTTGATAGGTGCTTATACTTGCAAGTTTATATTT
 TACAGTTAAATATCTAAATTTAATATATTACGCAGTTTCACGCAATGTAGCACGTGACATAAATATGA
 AATTTACTATGTGCTTGCTTTATTTAAATAAGTTTATAAAGTTAGTAAAAATATCAGAGTATATAT
 ATTTAATTAAATAATATCCTAAAAATATACTAATAACAATTTATCAATTAAGCTTTATACACTTTATAA
 55 ATAGTTATAATTATAGATGTGTATACGATTTCCGAAACATAAAAAATATTTCACTGCTTTTCGTGAAAA

ATAATTTTTTTATTATAAAACAATCCCTAATATAGTATTACCTCCAATTATGAGTCTATCGTAATAT
 ATGAAGTACTACCAAAATTTACCACTGATTTTTCAAAAAAACCACCATTTTTCAAAAATATTTTA
 5 TTAAGTGAATTTTTTATAATTAAATTTTTTATATCTATATAGAATATCTATTATACGCAAGAAAAAC
 CAAAAAGTACCCTATAAGTAGGTACCGCTTGTCCACATTATAATAAAAAAGTGAAGTACTCATCAA
 TACTTTTATTTAGGATACCTGCAGTCTAATATCCCTTCACGTAAGTTACTTAGTGACAATATTAC
 10 AGTGAGTTAGTAACCCGGTTCAGATCAAGGCATACCGAGCTTCTCTTCTGGCTTCATATGCTTAAA
 GAAAATATCAGGGACGGTGCAGTTAGCTAAAGCTCTCTTAGCATAAGTATTCATAAATTTCAAACCT
 AAGATATAACTGGAATTGACCCAGCCAAATCCTTCAGTAGCAACACCTTTAAAGTCTGCACCTTGGT
 TACCATATTCGGCATCAACTCTATGAGGATCTGTGCCTCTGGTAACGTCGTATTTCTCTACTACGAT
 15 ACCATTGTAGTCGACAAATGCCTTGGTCATTAATAAACCACCTATAGGCCAACCTTCTTGCAACT
 CCTGTAAATCCGTAATTATCTAACCCTGTCGAAGCAAGCATTTGATGAGGGGGCCCAACCATAAGGGT
 AATCCCATTCGCTGCTTGGTCTATTTCATTGTTATCTCACCCGAGACTCCTCAGTACAGGCAACCAG
 GCCTCCTAGCATTTCAAGCCTTGGCAATGCCTTCTCGACCATAGCGTTGGCTTGTTCCTGGGTTGCC
 20 AAGCCTGCCCACATGGCCCCAAATGTTGTTGCAGAATCGTAAGATGTTCTCTTTCCAATATGGACAT
 TGTAAGTCATAGAAAAAGCCTGTTTCTCTCGTCCCAAAATATTTCTGTGATTCTTTGCTTACGAATGTC
 TGCAAGTGCCTCCCAATGAGAAGAAGTGGTGGTTTCACCAGCATAATCAGTAATACTATCATCGAAG
 25 TACTTGGAACACATATGCAATATCTTTTTCGTACTTGTATAGTAACGAATTCAAATCAATCGTCG
 CTAAGTAAGCACAGACGTTCTCTAGACGGTAAGAGGTGTCATGTCCACTCTCACGTACAGCAGCATC
 ATGCAAAAAGAACTCATCTAGTTCTGGGCTCGTGTACTTTCGCCGGCATCGTACATGCACCTGAACTCC
 GGAATCGTTACATTGTGCTTTTCCGCAAATTTCCGGCAAATTGCGTCAAAGTGGTCAGGCTCGGTTT
 30 CTGGTGGGAAACCGATACCATCTGGATGATAACATGAAAGACCCGTGGTTTTGTCTGCTACCGCGGTTT
 TGCCATCCATACACTCTTGTATTCCTTAATGGCTGCGATGAATGCTCTTTTCAAGAAATCCACAGCG
 GTAGGATTTTGGTCAACACCGAACTTTTCAAGACCTTCAAAGCCATGTCCGGTTAGGAACGGGGGTT
 GTGACCGACAGAGGTAGTAGCTCCTATTGGCGTTCAATATTTTACCGTAATGCTCTATCTCAAAGAT
 35 GAAATGCTCAACCATCCACGTGCTATGTCCACTTTGTTACAGTCTAGAAGACCCAAAGCCATTAGG
 TATGAGTCCCAGCCGTAAAGTTTCATTAATAACGACCGCCCGGAACAACGTAGGGAAAACCAACCAATG
 TACTCTCACCGGTAATTGGGTCCCTGTGACTCTCCATCGCCAAAGCAAGCAACCCCGGGCTTTCTGTT
 40 CAATGATTGCACGTGCTCCGGCGTGATC

Example 6: Identification of antifungal drug targets represented in the attached *Ashbya gossypii* database

A.) Principle of gene disruption using Short Flanking Homology (SFH)-PCR mediated transformation of *Ashbya gossypii*

Gene disruptions in the *Ashbya* genome represented by sequences provided in the Sequence Listing are performed using a new PCR-based *Ashbya* gene targeting procedure. Gene targeting in *Ashbya* relies on homologous recombination in this fungus (Steiner et. al., 1995). It has been found that short (approximately 45 bp) target sequence homologies added by PCR to both ends of a selectable marker (e.g. GEN3) are sufficient to mediate sequence-specific gene targeting in *Ashbya*. The PCR fragment for gene targeting thus carries terminal Short Flanking Homology regions encompassing the selectable marker module. These PCR fragments are transfected into *A. gossypii* (e.g. by electroporation) and transformants are selected for G418 resistance. Verification of correct gene targeting is achieved by PCR-testing the presence of the new junctions between target DNA and integrated marker using verification primer pairs G1-G2 and G3-G4 as described by Wach et al. (1997) P. Yeast 13: 1065-1075. Also, verification of the gene targeting can be performed by DNA-hybridization experiments. The verification primers (G2: 5' GTTAGTCTGAC-CATCTCATCTG 3' and G3: 5' TCGCAGACCGATACCAAGATC 3') are derived from the open reading frame of the selectable marker gene GEN3. G1 and G4 primer sequences are derived from the single read sequence and correspond to regions upstream and downstream, respectively, of the homology regions used for PCR-based targeting. Using this

PCR-based targeting approach, sequences can be manipulated that are approximately 150 nt in length, a criterium matched by all single read sequences of the attached *Ashbya* database. This is of major advantage considering classical methods of gene disruption that are laborious and require cloning steps to incorporate a selectable marker within rather large flanks of surrounding target sequence homology.

After clonal purification (spore isolation) it is determined whether deletion/insertion at the targeted locus results in any phenotypic alterations (e.g. decrease or loss of viability) identifying a potential target for antifungal drugs.

B.) Protocol for Short Flanking Homology (SFH)-PCR mediated transformation of *Ashbya gossypii*

1.) Selection of S1 and S2 primers is done in order to link app. 45 nt specific of the target locus sequence to 20 nt homologous to pGEN3 in order to allow amplification of the selection marker *GEN3*. The standard sequence on the 5' side of *GEN3* corresponds to 5' GCTAGGGATAACAGGGTAAT 3', which includes the recognition site of the rare cutting endonuclease I-SCE1 to the PCR fragment. This restriction site is not found in the nuclear genome of *A. gossypii* and can be used to physically map the position of the *A. gossypii* insert DNA to a chromosomal location. The sequence on the 3' side of *GEN3* corresponds to 5' AGGCATGCAAGCTTAGATCT 3'. Put together, the S1 and S2 primers comprise a total of app 65 nt. Selection of verification primers G1 and G4 which are neither part nor overlap with S1 and S2 primer sequences is dependent on the target locus sequence.

2.) Generation of SFH-PCR fragment is achieved by using the S1 and S2 primers to amplify *GEN3* to an amount of approximately 10mg from linearized pGEN3 cleaved by the restriction endonucleases *EcoRI* and *BamHI* (Biolabs). To increase the fidelity of the PCR-product a mixture of Taq DNA Polymerase (Pharmacia) and Vent DNA Polymerase (Biolabs) is used in a ratio of 10: 1-2 units.

Standard PCR conditions are:

Step 1: Initial denaturation	at 96°C for 2min.
Step2: Denaturation	at 96°C for 30s.
Step3: Primer annealing	at 50°C for 30s.
Step4: Elongation period	at 72°C for 2.5min.

Steps 2-4 are repeated for 25-35 times.

Step5: Terminal elongation period:	at 72°C for 5min.
Step6: Storage at 4°C (optional).	

3.) Transfection of the SFH-PCR product into *A. gossypii* is done by electroporation (Steiner et al., 1995 with modifications):

- 1.) Inoculate 100-200ml YPD or AFM (YPD: 2% casein peptone, 2% glucose, 1% yeast extract; AFM: 1% casein peptone, 2% glucose, 1% yeast extract, 0.1% myo-inositol) with a spore suspension of app. 10^7 spores.
- 2.) Incubate at 30°C for a max. of 18h under rotation of 200rpm.
- 3.) Collect the mycelium by filtration and wash once with sterile H₂O.
- 4.) Resuspend 1g of wet weight mycelium in 40ml of 50mM potassium phosphate buffer, pH 7.5 containing 25mM DTT and incubate at 30°C for 30min with gentle shaking.
- 5.) Collect the mycelium by filtration and wash once with 50ml cold STM buffer (STM: 275mM sucrose, 10 mM Tris-HCl, pH 7.5, 2mM MgCl₂.)
- 6.) Resuspend to a densely packed mixture of mycelium in STM buffer.
- 7.) Mix app. 150ml of mycelium with max. 50 ml of SFH-PCR product in an Eppendorf tube and transfer the mixture into an electroporation cuvette (BioRad 4mm).
- 8.) Apply an electric field pulse of 1.5kV, 100%, 25 mF which will result in a pulse length of app 2.3ms. Add 1 ml of YPD or AFM and spread equal amounts onto 3 pre-dried AFM plates.
- 9.) Incubate at 30°C for a min. of 4h.
- 10.) Overlay with 8ml 0.5% agarose top layer containing Geneticin/G418 at a final concentration of 200 mg/ml.
- 11.) Incubate at 30°C for a max. of 4 days.

C.) Examples of gene disruptions revealing potential antifungal drug targets using Short Flanking Homology (SFH)-PCR.

1.) Disruption of PAG1025RP

The amino-terminal part of the *RHO 3* gene is located on PAG1025RP. The location of the homology region to the target locus of the four primers (S1, S2, G1, and G4) necessary to construct and verify the SFH-PCR transformants are indicated in section E.) below. Using the S1 and S2 primers (including the 20 nt homologous to pGEN3 at the 3' end of the homology region to the target locus as indicated in A) together with pGEN3, the plasmid carrying the selectable marker gene *GEN3*, (linearized by cutting with *EcoRI* and *BamHI* restriction nucleases [Biolabs]), a PCR fragment is generated that carries terminal Short Flanking Homology regions encompassing the selectable marker module. Primary transformants, which are heterokaryotic with respect to transformed and untransformed nuclei, are clonally purified by spore isolation using a micromanipulator. Germination of spores deleted for *RHO 3* on selective medium is only obtained by adding osmotic stabilizers such as 1 M sorbitol. Verification of the set deletion is performed by PCR using the verification primers G1 and G4 that are unique to the target locus and are not used in the initial transformation event, as well as the primers G2 and G3 that are specific to the selectable marker. PCR products indicative of a homologous gene targeting event can be obtained by using the verification primers in the combination G1-G4 (which amplifies the entire locus in which integration of *GEN3* is targeted), G1-G2 (which amplifies the 5' novel joint that is created by insertion of *GEN3*) and G3-G4 (which amplifies the 3' novel joint that is created by insertion of *GEN3*).

2.) Disruption of PAG1634RP

The amino-terminal part of the *BAL 1* gene is located on PAG1634RP. The location of the homology region to the target locus of the four primers (S1, S2, G1, and G4) necessary to construct and verify the SFH-PCR transformants are indicated in section E.) below. Using the S1 and S2 primers (including the 20 nt homologous to pGEN3 at the 3' end of the homology region to the target locus as indicated in A) together with pGEN3, the plasmid carrying the selectable marker gene *GEN3*, (linearized by cutting with *EcoRI* and *BamHI* restriction nucleases [Biolabs]), a PCR fragment is generated that carries terminal Short Flanking Homology regions encompassing the selectable marker module. Primary transformants, which are heterokaryotic with respect to transformed and untransformed nuclei, are clonally purified by spore isolation using a micromanipulator. Germination of spores deleted for *BAL1* on selective medium is only obtained by adding osmotic stabilizers such as 1 M sorbitol. Verification of the gene targeting event is done as described in C.1)

3.) Disruption of PAG1486RP

The aminoterminal part of the *BUB1* open reading frame is located on PAG1486RP. The location of the homology region to the target locus of the four primers (S1, S2, G1, and G4) necessary to construct and verify the SFH-PCR transformants are indicated in section E.) below. Using the S1 and S2 primers (including the 20 nt homologous to pGEN3 at the 3' end of the homology region to the target locus as indicated in A) together with pGEN3, the plasmid carrying the selectable marker gene *GEN3*, (linearized by cutting with *EcoRI* and *BamHI* restriction nucleases [Biolabs]), a PCR fragment is generated that carries terminal Short Flanking Homology regions encompassing the selectable marker module. Primary transformants, which are heterokaryotic with respect to transformed and untransformed nuclei, are clonally purified by spore isolation using a micromanipulator. Germination of spores, deleted for *BUB 1* cannot be obtained indicating that this gene is essential in *A. gossypii*. Verification of the gene targeting event is done as described in C.1)

SFH-PCR mediated marker integration into the *A. gossypii* DNA can be applied to all RP and/or UP sequences of the attached data base. Further applications of SFH-PCR mediated gene targeting in *A. gossypii* are:

- 1.) Generation of antisense transcripts.
- 2.) Overproduction of mRNA and presumably overexpression of a protein.
- 3.) Addition of reporter genes to a target sequence (e.g. GFP, lacZ).
- 4.) Introduction of longer deletions using RP and UP sequences.

D.) Examples of gene disruptions revealing potential antifungal drug targets by classical procedures

1.) Construction of disruption cassettes

As a selectable marker, kanMX0 is used. This is a transformation selection module expressing G418 resistance in yeast and filamentous fungi and kanamycin resistance in *E. coli* (International Patent Application No PCT/EP 91/01116). This module is inserted into *Ashbya* sequences of genomic pAG clones. The module is a chimeric kanamycin gene plus adjacent multiple cloning regions from the cloning vector pAG-231 (Steiner, Wendland, Wright, and Philippsen, Genetics 1995: 140, 973-987). To this purpose the selectable marker is released from the cloning vector pAG-231 (by cleavage with either BamHI, Sall or XhoI. It is ligated into cloned *Ashbya* DNA cleaved with either BglII, XhoI (partial) or Sall (partial), respectively. Clones carrying *Ashbya* sequences disrupted by kanMX0 are selected in *E. coli* by kanamycin resistance. DNA sequence analysis around the site of integration of the kanMX0 module (i1 and i2 sequences in the attached *Ashbya* data base) reveal the disrupted open reading frame and determine the orientation of the kanMX0 module.

2.) Disruption of PAG1010i1/i2, PAG1017i1/i2, PAG1021i1/i2, and PAG1044i1/i2

Disruption cassettes are released from the plasmids leaving several hundred base pairs of *Ashbya* DNA flanking kanMX0 (e.g. by cleavage with NotI and KpnI in the multicloning region). Transformation of *Ashbya* with the disruption cassettes induces homologous recombination into the target locus (Steiner et al., 1995). Primary transformants are selected on G418 containing plates and analyzed by DNA hybridization experiments or by PCR, followed by clonal purification (spore isolation). Chromosomal mapping of the target loci is achieved by I-SceI endonuclease mapping of chromosomal DNA separated by pulsed-field gel electrophoresis.

Primary transformants are heterokaryotic, carrying nuclei with a wild type allele and nuclei with a disrupted allele. Spores with single haploid nuclei develop in the older mycelium and allow clonal purification of transformants (e.g. by single spore isolation with a micromanipulator, Steiner et al., 1995). Spore isolation is followed by a growth assay. The disruption of *Ashbya* ORF's identified for example in sequences PAG1010i1/i2, PAG1017i1/i2, PAG1021i1/i2, and PAG1044i1/i2 do not grow on reveals no growth of spores on G418 medium thereby classifying the products of these ORF's as essential for growth (novel antifungal targets).

One advantage of using *Ashbya*, a fungus with a small genome and apparently very few gene duplications, for novel drug target identification is demonstrated by the fact that the ORF represented by PAG1017i1/i2 is essential in *Ashbya* but the highly homologous ORF Yer082c of *S. cerevisiae* is not (Smith, Chou, Lashkari, Botstein, and Brown Science 1996: 274, 2069-2074).

Clonally purified disruptions of several other ORF's do grow on G418 medium, sometimes identifying mutants that display slow growth phenotypes (e.g. disruption of AgDHC1).

E.) Construction of pGEN3

The GEN3 selection module is designed specifically to allow homologous recombination in *Ashbya gossypii* using short flanks of DNA sequence homology to the desired target locus. GEN3 consists of the open reading frame of the kan^R-gene which is under the transcriptional control of the *S. cerevisiae* TEF2 promoter and terminator. GEN3, which confers resistance to the antibiotic drug geneticin, bears no sequence homology to the *A. gossypii* genome.

To construct pGEN3, the ORF of the kan-gene is amplified from pFA-kanMX4 (Wach, A., Brachat, A., Poehlmann, R., and Philippsen, P. (1994). New heterologous modules for classical or PCR-based gene disruptions in *Saccharomyces cerevisiae*. Yeast 10:1793-1808) using primers PTEF2-kan and TTEF2-kan (table 1) that contain an additional 40 bp of short flanks of homology to the *S. cerevisiae* TEF2 gene. The diploid yeast strain FY1679 is transformed with this SFH-PCR product (Wach et al., 1994). Genomic DNA of transformants resistant to G418 is checked for integration of the PCR product at the TEF2 locus by analytical PCR using primers TEF2-150RPG and TEF2-BglII. Because of the diploid background a wild-type band 2.26 kb and a replacement band of 1.7 kb is generated. This 1.7 kb fragment contains the kan-ORF flanked by 609 bp of the TEF2-promoter region and 274 bp including the TEF2-terminator. This gene is termed GEN3. The fragment is extracted out of an agarose gel and ligated as an BglII-fragment into the BglII site of pAF100 (Thierry A., Fairhead, C., and Dujon, B. (1990). The complete sequence of the 8.2 kb segment left of MAT on chromosome III reveals five ORF's, including a gene for a yeast ribokinase. Yeast 6:521-534) yielding pGEN3. The usefulness of GEN3 as a marker gene in *A. gossypii* is corroborated by recloning of the gene in an ARS containing vector (Sikorski, R.S. and Hieter, P. (1989). A system of shuttle vectors and yeast host strains designed for efficient manipulation of DNA in *Saccharomyces cerevisiae*. Genetics 122:19-27.) that allows free replication upon transformation in *A. gossypii*.

Oligonucleotide primers ¹⁾

PTEF2-kan GTTTTTAGAATATACGGTCAACGAACATAATTAACATAACatccctaagcaaaaactca
 TTEF2-kan GGTATATAAAATATTATATGGAAGCAATAATTATTACTCttagaaaactcatcaacca
 TEF2-150RPG **gcgagatct**GGTGTATTTACCAATAAT
 TEF2-BglII **gcgagatct**GATGAGGCCGCTTTTGTG

¹⁾ Upper case letters correspond to *S. cerevisiae* DNA used as homology regions. Lower case letters correspond to homologies to pGEN3, pFA-kanMX4 (double underlined), or represent additional nucleotides containing the restriction site BglII (bold) used in the cloning of pGEN3.

Example 7: Forensic identification using PCR-based diagnostic techniques

The DNA sequences of the present invention are also useful for distinguishing among different species of plant pathogenic fungi and for distinguishing fungal pathogens from other pathogens such as bacteria. Particularly, the DNA sequences of the invention can be used as primers in PCR-based analysis for fungal identification, as well as primers derived from these DNA sequences. DNA sequences that vary among different pathogens can be used to identify and distinguish among those specific pathogens. For example, the presence of *Gaumannomyces graminis* in infected wheat has been detected using PCR of sequences specific to the pathogen mitochondrial genome (Schlesser *et al.*, 1991; *Applied and Environ. Microbiol.* 57: 553-556), and random amplified polymorphic DNA (*i.e.* RAPD) markers have been able to distinguish numerous races of *Gremmeniella abietina*, the causal agent of scleroderris canker in conifers. U.S. Patent No. 5,585,238 describes primers derived from the ITS sequences of the ribosomal RNA gene region of strains of *Septoria*, *Pseudocercospora*, and *Mycosphaerella* and their use in the identification of these fungal isolates using PCR-based techniques.

Methods for the use of DNA sequences in PCR analysis are well known in the art. See, for example, see U.S. Patent Nos. 4,683,195 and 4,683,202, as well as Schlesser *et al.* (1991) *Applied and Environ. Microbiol.* 57:553-556. See also, Nazar *et al.* (1991; *Physiol. and Molec. Plant Pathol.* 39: 1-11), which used PCR amplification to exploit differences in the ITS regions of *Verticillium albo-atrum* and *Verticillium dahliae* and therefore distinguish between the two species; and Johanson and Jeger (1993; *Mycol. Res.* 97: 670-674), who used similar techniques to distinguish the banana pathogens *Mycosphaerella fijiensis* and *Mycosphaerella musicola*. Similarly, the sequences of the present invention set forth in the Sequence Listing can be adapted for use in such PCR analysis.

Table 1: Description of *Ashbya gossypii* genomic fragments in the Sequence Listing

<u>PAG name</u>	<u>Yeast Name</u>	<u>Gene Name</u>	<u>Brief Description</u>	<u>HC</u>	<u>Additional Comments</u>
PAG1001RP	YNR030w		weak similarity to SMP3 protein	1	
PAG1001UP	YCR069w	SCC3	peptidyl-prolyl cis-trans isomerase precursor	1	
PAG1002I1	YIL014w		similarity to Mnn1p (alpha-1,3-mannosyltransferase)	2	homology due to PAG1002I2-hit
PAG1002I2	YIL014w		similarity to Mnn1p (alpha-1,3-mannosyltransferase)	2	
PAG1002RP	YIL105c		similarity to hypothetical protein YNL047c	3	open frame > 450 nt in -2
PAG1002UP	YBL009w		homology to DNA damage responsive ALK1 protein	4	
PAG1003RP	YCR053w	THR4	threonine synthase (o-p-homoserine p-lyase)	1	Terminator, Syntenie, see PAG1003UP
PAG1003UP	YCR057c	PWP2	periodic tryptophan protein	1	Syntenie, see PAG1003RP
PAG1004RP	YLR102c		hypothetical protein	2	Syntenie, see PAG1004UP
PAG1004UP	YLR100w		hypothetical protein	1	Syntenie, see PAG1004RP
PAG1005RP	YBR216c		homology to hypothetical protein (chromosome VII)	3	open frame > 350 nt in -1
PAG1005UP	YNL068c	FKH2	homolog of Drosophila forkhead protein	3	open frame 300 nt in -3
PAG1006RP	YDR432w	NPL3	nucleolar protein	3	open frame > 450 nt in -3
PAG1006UP	YOR290c	SNF2	component of SWI/SNF global transcription activator complex	3	open frame > 350 nt in -1
PAG1007RP	YER091c	MET6	5-methyltetrahydropteroyl triglutamate-homocysteine methyltransferase	1	Syntenie, see PAG1007UP

PAG1007UP	YER093c		weak similarity to <i>Staphylococcus epidermidis</i> PepB protein	1	Syntenie, see PAG1007RP
PAG1008I1	YHR196w		hypothetical protein	1	does not fit in Syntenie of PAG1008RP, UP and I2
PAG1008I2	YJR133w		similarity to hypothetical D9509.18p	1	Promotor + Terminator (the latter according to PAG1008I1), 279 nt. Syntenie, see PAG1008RP and UP
PAG1008RP	YJR132w	NMD5	putative Upf1p-interacting protein	2	Terminator, Syntenie, see PAG1008I2 and UP
PAG1008UP	YJR134c		unclear similarity to paramyosin, myosin	1	Terminator, Syntenie, see PAG1008I2 and RP
PAG1009RP	YNL218w		homology to <i>C. burnetii</i> trxB, spoIIIE and serS genes	1	Syntenie, see PAG1109UP
PAG1009UP	YNL219c		probably membrane protein	2	Syntenie, see PAG1109RP
PAG1010I1	YLR337w	VRP1	proline-rich protein verprolin	3	open frame 350 nt in +3 and -2
PAG1010I2	YLR332w	MID2	serine-rich protein, multicopy suppressor of temperature sensitivity of htr1 null mutant. Open frame whole length in +3 and -3		
PAG1010RP	YOR240w		weak similarity to unknown <i>S. pombe</i> protein	1	
PAG1010UP	YGR115c		questionable ORF	1	
PAG1011I1	YLR374c		questionable ORF	4	

PAG1011I2	YKR054c	DYN1	dynein heavy chain, cytosolic	1	additional Hit see PAG1011RP and PAG1219RP
PAG1011RP	YKR054c	DYN1	dynein heavy chain, cytosolic	1	additional Hit see PAG1011I2 an PAG1219RP
PAG1011UP	YJL133w	MRS3	splicing protein and member of the mitochondrial carrier family	1	Terminator
PAG1012RP	YER074w	RP50A	ribosomal protein S24.e	1	Terminator, cannot be checked for Intron, not on sequence of PAG1012RP
PAG1012UP	YIL068c	SEC6	component of a multiprotein complex involved in fusion of post-golgi vesicles to plasma membrane	1	
PAG1013I1	YLR344w	RPL33	ribosomal protein	1	Promotor, Syntenie, see PAG1013UP, RP and I2 2nd Hit, Intron in A.g. at the same position like in S.c. (CAI S.c. 0.63)
PAG1013I2	YLR344w	RPL33	ribosomal protein	1	Terminator, Syntenie, PAG1013UP, RP and I1
PAG1013RP	YLR345w		similarity to 6-phosphofructo-2-kinase (EC 2.7.1.105)	1	Syntenie, see PAG1013UP, I1 and I2 2nd Hit
PAG1013UP	YLR343w		homology to Candida albicans pH responsive	1	Syntenie, see PAG1013RP,

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PAG1022RP			3	open frame whole length in -1	
PAG1022UP	YDR331w		3	open frame > 350 in +1	
PAG1023H	YCR092c	MSH3	2	DNA-repair protein	
PAG1023I2	YCR092c	MSH3	1	DNA-repair protein	
PAG1023RP	YCR092c	MSH3	1	DNA-repair protein	
PAG1023UP	YNR047w		1	similarity to microtubule-associated serine/threonine protein kinases	
PAG1024RP	YBR119w	MUD1	2	U1 snRNP-specific A protein (snRNA- associated protein)	most likely intron, no ATG in correct frame found slightly different position compared to S.c.
PAG1024UP	YER105c	NUP157	3	nuclear pore protein (nucleoporin)	open frame whole length in +3 and -2
PAG1025RP	YIL118w	RHO3	1	similarity to RAS proteins; belongs to RHO sub- family	
PAG1025UP	YNL061w	NOP2	1	homolog to human proliferation-associated nucleolar antigen, p120	
PAG1026RP	YIL098c		1	hypothetical protein	Terminator
PAG1026UP	YNL039w	TFC5	2	transcription factor TFIIIB, B" component of RNA polymerase III	
PAG1027RP	YOL122c	SMF1	1	suppressor of mitochondrial matrix protease (MAS1) mutant	
PAG1027UP	YOR359w		4	hypothetical protein	

PAG1028RP	YNL308c	similarity to unknown protein on S.pombe CHR I cosmid c22G7	1	Syntenie, see PAG1028UP
PAG1028UP	YNL309w	Sin3p-binding protein (transcription regulatory protein)	2	Syntenie, see PAG1028RP, (classification in Hom_Class 2 according to Syntenie)
PAG1029RP	YOR205c	hypothetical protein	2	
PAG1029UP	YGL141w	similarity with hypothetical protein 1 - human (A38919)	2	
PAG1030RP	YHR205w	cAMP-dependent protein kinase homolog	1	Syntenie, see PAG1030UP
PAG1030UP	YHR204w	similarity to alpha-mannosidases	1	Syntenie, see PAG1030RP
PAG1031RP	YKL012w	similarity to C.elegans hypothetical protein ZK1098.1 and to Myo2p	1	Promotor, Syntenie, see PAG1031UP
PAG1031UP	YKL011c	cruciform-cutting endonuclease 1	2	Syntenie, see PAG1031RP, (classification in Hom_Class 2 according to Syntenie)
PAG1032RP	YKL209c	ABC transporter responsible for export of A factor mating pheromone	4	
PAG1032UP	YDL133w	putative membrane protein	1	Terminator
PAG1033RP	YBR274w	probable serine/threonine-specific protein kinase (EC 2.7.1.-)	1	
PAG1033UP	YDL037c	putative glucan 1,4-alpha-glucosidase (EC 3.2.1.3)	3	open frame whole length in -2

PAG1034RP	YGL114W	hypothetical protein	1	
PAG1034UP	YOR246c	similarity to reductases	4	
PAG1035I1	YLR337W	proline-rich protein verprolin	3	open frame 300 nt in -3
PAG1035I2	YNL281W	hypothetical protein	3	open frame > 350 nt in -1
PAG1035RP	YJR090c	required for glucose repression and for glucose and cation transport	3	open frames > 350 nt in -1
PAG1035UP	YBL079W	nuclear pore (nucleoporin)	1	see PAG1035UP for additional Hit to YBL079W
PAG1036RP	YLR266c	similarity to transcription factors	3	open frames 350 nt in -3, 300 nt in +2
PAG1036UP	YDR370c	hypothetical protein	2	
PAG1037RP	YLR430W	positive effector of tRNA-splicing endonuclease	1	
PAG1038RP	YNL068c	homolog of Drosophila forkhead protein	3	open frame whole length in -3
PAG1038UP	YLR389c	protease involved in a-factor processing	1	
PAG1039RP	YDR443c	component of RNA-POL holoenzyme and komberg's mediator (SRB) subcomplex	1	nearly whole gene on clone
PAG1039UP	YDR443c	component of ma polymerase holoenzyme and komberg's mediator (SRB) subcomplex	1	Promotor, nearly whole gene on clone
PAG1040RP	YAL040c	G1/S-specific cyclin	4	tRNA (Val1), pos. 134 - 207, perfect match to S.c. tRNA(Val1A), 1 mismatch to tRNA(Val1B), no intron
PAG1040UP	YPR097W	hypothetical protein	2	

55	PAG1041RP	YJL054w		hypothetical protein	2	
50	PAG1041UP	YLR337w	VRP1	proline-rich protein verprolin	4	
45	PAG1042RP	YGL035c	MIG1	transcriptional repressor involved in glucose-repression	3	open frame > 300 nt in -2
	PAG1042UP	YKR075c		weak similarity to negative regulator Sm1p/Hex2p	3	open frame 300 nt in +1
	PAG1043RP	YDR456w		similarity to NA+-H+ antiporters	2	
	PAG1043UP	YML029w		putative membrane protein	2	
	PAG1044I1	YDL076c				
	PAG1044I2	YDL076c				
	PAG1044RP	YDL077c		hypothetical protein	2	syntenie
	PAG1044UP	YDL075w	RPL34A	ribosomal protein L31.e.c12	1	Promotor; Intron, in A.g. at same position compared to S.c. (CAI S.c. 0.60);syntenie
	PAG1045RP	YBL096c		hypothetical protein	4	
	PAG1045UP	YDL195w	SEC31	component of the COPII coat of ER-golgi vesicles	4	
	PAG1046RP	YHR132c		carboxypeptidase homolog	1	
	PAG1046UP	YBR149w			3	open frame 350 nt in +1
	PAG1047RP	YLR377c	FBP1	fructose-1,6-bisphosphatase, gluconeogenic enzyme	1	Syntenie, see PAG1047UP
	PAG1047UP	YLR378c	SEC61	member of the protein permease family of the major		

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PAG1053RP	YJL197W	UBP12	ubiquitin specific protease	3	open frame whole length in -1	Intron possible, same position like in S.c. (CAI S.c. 0.21)
				1		
				1		
PAG1053UP	YGR255c		hypothetical protein			Terminator
PAG1054RP	YBL023c	MCM2	contains N-term down to codon 106, Member of the CDC46p/ MCM2p/MCM3p family that acts as a complex at ARS's to initiate replication	1		former class III
PAG1054UP	YDL120w		hypothetical protein	3	open frame 350 nt in +3, +2, and -2	
PAG1055RP	YBL023c	MCM2	member of the Mcm2p, Mcm3p, Cdc46p family	2		
PAG1055UP	YDR065w		hypothetical protein	3	open frame 350nt in +3 and -2	
PAG1056RP	YBR290w	BSD2	metal homeostasis protein and probable metal ion transporter	1		
PAG1056UP	YNL228w		questionable ORF	4		
PAG1057RP	YDR143c	SAN1	protein that may antagonize the function of Cdc68p (general chromatin factor) and Sir4p	2		
PAG1057UP	YIL169c		homology to glucan 1,4-alpha-glucosidase	3	open frame 400 nt in +3	
PAG1058I1	YDR151c	CTH1	protein of the inducible CCH zinc-finger family	1		Syntenic, see PAG1058UP
PAG1058I2	YOR306c		similarity to human X-linked PEST-containing transporter	4		
PAG1058RP	YDR150w	NUM1	nuclear migration protein	4		

PAG1058UP	YDR152w		1	1	Syntenie, see PAG1058I1	5
PAG1059RP	YLR289w	GUF1	1	1	Syntenie, see PAG1059UP 1st and 2nd Hit	10
PAG1059UP	YLR291c	GCD7	1	1	Terminator + Promotor (300 nt, for Terminator see PAG1059UP 2nd Hit), Syntenie	15
	YLR292c	SEC72	1	1	Terminator + Promotor (300 nt, for Terminator see PAG1059UP 1st Hit), Syntenie	20
PAG1060RP	YER157w		1	1	unknown function syntenie same as PAG1637	25
PAG1060UP	YER155c	BEM2	1	1	GTPase-activating protein same as PAG1637	30
PAG1061RP	YGR276c		1	1	weak similarity with GOR protein - Pan troglodytes same as PAG1112	35
PAG1062RP	YMR297w	PRC1	1	1	carboxypeptidase y (CPY) (YSCY), serine-type protease	40
PAG1062UP			3	3	ORF not regarded, homolog to Gly-X open frame 300 nt in -1, many stops in other frames	45
PAG1063RP	YPL004c		1	1	carboxypeptidase, pseudogene in S288C, three ORF's are separated by two in-frame STOP- codons homology to hypothetical protein (chromosome VII)	50

PAG1063UP	YFL002c	SPB4	putative ATP-dependent RNA helicase	1	
PAG1064RP	YBR180w		similarity to drug resistance proteins	1	
PAG1064UP	YNL185c		similarity to ribosomal protein L11	4	
PAG1065RP	YPL040c	ISM1	mitochondrial Isoleucine--tRNA ligase (EC 6.1.1.5)	2	Syntenie, see PAG1065UP
PAG1065UP	YPL037c	EGD1	protein with a negative role in gal gene expression	1	Terminator, Syntenie, see PAG1065RP
PAG1069RP	YPL265w	DIP5	dicarboxylic amino acid permease	1	former class III
PAG1069UP	YGR211w		hypothetical protein	1	
PAG1071CRP	YLR405w		similarity to Azospirillum brasilense nifR3 protein	3	(Chimera or) repated region, hybridizes to A.g. chr. II and III open frame> 350 nt in +2 and -3
PAG1071CUP	YDL164c	CDC9	DNA ligase	3	(Chimera or) repated region (see pG1071CRP), hybridizes to A.g. chr. II and III , open frame whole length in -3
PAG1073RP					Mito
PAG1073UP					Mito
PAG1074RP					Mito
PAG1074UP					Mito
PAG1075RP					Mito
PAG1075UP					Mito

PAG1076RP						Mito	
PAG1076UP						Mito	
PAG1077RP						Mito	
PAG1077UP						Mito	
PAG1078I1	YJL024c	YKS7	sigma-2 adaptin homolog	1	Intron possible, 5' splice site not found		
PAG1078I2	YJL024c	YKS7	sigma-2 adaptin homolog	1	Terminator, for Intron see PAG1089I1		
PAG1078RP	YCR081W	SRB8	component of RNA polymerase holoenzyme and SRB subcomplex	4			
PAG1078UP	YGR175c	ERG1	squalene monooxygenase	1	Terminator		
PAG1079RP	YNL133c		hypothetical protein	2	tRNA (Phe), pos. 446 - 538, Syntetle of YNL133c and tRNA (Phe), 18 nt Intron in S.c., anticodon (gene)=GAA, same as PAG1200		
PAG1079UP	YHR069c		homology to unknown S.pombe and human proteins	1	same as PAG1200		
PAG1080UP	YLL009c	COX17	interacts genetically with SCO1 and SCO2 in cytochrome oxidase assembly	1	Promotor, whole gene on clone, (CAI S.c. 0.09))		
PAG1081RP	YOR378w		homology to aminotriazole resistance protein	3	open frame whole length in +3		
PAG1081UP	YCR075c	ERS1	Intracellular protein transport	2			

55	PAG1082RP	YGR055w	MUP1	high affinity methionine permease	1	
50	PAG1082UP	YLR357w		similarity to hypothetical protein (chromosome VII)	2	
45	PAG1083RP	YNL283c		similarity to mammalian mucin and yeast chitinase	3	open frame whole lenght in -2, many stops in other frames
40	PAG1083UP	YDR158w	HOM2	aspartate-semialdehyde dehydrogenase (EC 1.2.1.11)	1	Promotor (CAI S.c. 0.43)
35	PAG1201RP	YDL140c	RPO21	RNA polymerase II, largest subunit (B220)	1	Promotor (CAI S.c. 0.21)
30	PAG1201UP	YLR218c		hypothetical protein	2	
25	PAG1202RP	YPR003c		hypothetical protein	2	
20	PAG1202UP	YPL108w		hypothetical protein	1	
15	PAG1203RP	YMR076c		similarity to E. nidulans bimD protein, includes C-term + terminator	1	two genes covered by RP-SRS;syntenie
10	PAG1203UP	YMR075w		promoter terminator combination,		
5	PAG1204RP	YGR282c	BGL2	similarity to Emericella nidulans bimD protein	1	syntenie;covers codons 170-372
	PAG1204UP	YGR284c		endo-beta-1,3-glucanase of the cell wall	1	Promotor, Syntenie, see PAG1204UP
	PAG1205RP	YJR104c	SOD1	similarity with mouse Surf-4 protein	1	Syntenie, see PAG1204RP
				superoxide dismutase (EC 1.15.1.1) (Cu-Zn)	1	divergent Terminator (123 nt)
		YBL039c	URA7	CTP synthase 1;last step in pyrimidine biosynthesis pathway	1	divergent Terminator (123 nt)

PAG1205UP	YHR150w	unknown function	1	former class III
PAG1206RP	YDR353w	putative thioredoxin reductase (NADPH)	1	Promotor
PAG1206UP	YHR103w	homology to hypothetical protein D9476.7	1	
PAG1207RP	YPL072w	hypothetical protein	2	Syntenie, see PAG1107UP.Classification in Hom_Class 2 according to Syntenie
PAG1207UP	YPL074w	probable regulatory subunit of 26S proteasome complex	1	Syntenie, see PAG1107RP
PAG1208RP				Mito
PAG1208UP				Mito
PAG1209RP	YDL073w	putative mitochondrial protein	2	
PAG1210RP	YLR094c	hypothetical protein	1	Terminator, Syntenie, see PAG1210UP
PAG1210UP	YLR095c	hypothetical protein	2	Syntenie, see PAG1210RP
PAG1211RP	YHR072w	lanosterol synthase (EC 5.4.99.7)	1	
PAG1211UP	YDR317w	hypothetical protein	2	
PAG1212RP	YBR180w	similarity to drug resistance proteins	1	
PAG1212UP	YDL202w	hypothetical protein	2	
PAG1213RP	YJR005w	clathrin-associated protein complex beta chain, large subunit	2	
PAG1213UP	YLR007w	hypothetical protein	1	open frames whole length in +1 and -3,former class III
PAG1214RP	YIR008c	DNA polymerase alpha subunit 48KD (DNA PRI1	3	open frame whole length in

PAG1214UP	YLL031c	primase)	-2	
PAG1215RP	YIR035c	similarity to YJL062p	4	
		similarity to YIR036p and YIL124p	1	Promotor, "Syntenie", see PAG1215UP.
	YIR036c	similarity to short-chain alcohol dehydrogenase family, YIR035p and YIL124p	1	Promotor, "Syntenie", see PAG1215UP
PAG1215UP	YIR035c	similarity to YIR036p and YIL124p	1	Promotor, "Syntenie", see PAG1215RP.
	YIR036c	similarity to short-chain alcohol dehydrogenase family		
		YIR035p and YIL124p	1	Promotor, "Syntenie", see PAG1215RP
PAG1216RP	YIL047c	protein for which truncation and overexpression can suppress \$ lethality of G-alpha protein deficiency	3	open frams >300 nt in +2
		peptidylprolyl isomerase homolog	4	
PAG1216UP	YJR032w	homology to hypothetical proteins on chromosomes VII, XV and XVI	1	
PAG1218RP	YAL053w	homology to human SM22 homolog	2	Promotor
PAG1218UP	YOR367w	dynein heavy chain, cytosolic	2	Syntenie, see PAG1219UP, additional Hit see PAG1011I2 and RP
PAG1219RP	YKR054c	DYN1		
PAG1219UP	YKR056w	NUC2	1	Syntenie, see PAG1219RP
PAG1220RP	YBR062c	unknown function	2	

PAG1220UP	YDR044w	HEM13	coproporphyrinogen III oxidase	1		
PAG1221RP	YGL227w		hypothetical protein	2	Terminator	
PAG1221UP	YER043c	SAH1	S-adenosyl-L-homocysteine hydrolase	1		
PAG1222RP	YLR403w	SFP1	involved in nuclear protein localization	1	Terminator, Syntenie, see PAG1222UP	
PAG1222UP	YLR401c		hypothetical protein	1	Syntenie, see PAG1222RP	
PAG1223RP	YGR002c		hypothetical protein	1	syntenie	
PAG1223UP	YGL003c		unknown function, has MT-energy transfer proteins signature, has cytochrome c oxidase subunit I, copper B binding region signature	1	former class III.SYNTENIE	
PAG1224RP	YML127w		hypothetical protein	1		
PAG1224UP	YLL067c		homology to other subtelomeric encoded proteins	3	open frame > 300 nt in -1	
PAG1225RP	YNL087w		probably membrane protein	1		
PAG1225UP	YKR092c	SRP40	weak suppressor of a mutant of the subunit AC40 of DNA dependent RNA polymerase I and III	3	open frames > 500 nt in +2 (S-rich) and >450 nt in -1	
PAG1226RP	YOR181w	LAS17	proline-rich protein	3	open frame whole length in +2	
PAG1226UP	YFL049w		weak similarity to Npl6p (nuclear protein localization factor)	2		
PAG1227RP	YDR262w		hypothetical protein	2		
PAG1227UP	YGR160w		questionable ORF	4		

PAG1228RP	YFL008w	SMC1	chromosome segregation protein	1	Promotor (CAI S.c. 0.16)
PAG1228UP	YAL017w	FUN31	probable serine/threonine protein kinase	1	
PAG1230RP	YNL317w		similarity to Arabidopsis thaliana PRL1 protein	1	
PAG1230UP	YOL138c		hypothetical protein	1	
PAG1231RP	YMR176w		hypothetical protein	3	open frame > 350 nt in -1
PAG1231UP	YPL027w		hypothetical protein	3	open frame > 400 nt in +1
PAG1232RP	YGL027c	CWH41	Involved in beta-1,6-glucan assembly	1	open frames 300 nt in +1
PAG1232UP	YBL014c	RRN6	component of a multiprotein complex essential for		
			initiation of RNA-POL I	2	
PAG1233RP	YKR092c	SRP40	weak suppressor of a mutant of the subunit	3	open frames whole length
			AC40 of DNA dependent RNA polymerase I and III		in +2 and nearly whole length in -3
PAG1233UP	YML102w		similarity to human chromatin assembly factor I	2	
			p60 chain		
PAG1235RP	YDL122w	UBP1	ubiquitin-specific protease	1	
PAG1235UP	YGL156w	AMS1	alpha-mannosidase	1	
PAG1236RP	YDR373w		homology to human BDR-1 protein and other calcium binding proteins	1	Promotor
PAG1236UP	YOR124c	UBP2	ubiquitin-specific proteinase (EC 3.4.-.-)	1	
PAG1238RP	YPL195w	YKS4	putative alpha/gamma adaptin	1	
PAG1238UP	YGL080w		similarity with R07E5.13 protein (clone R07E5) - C. elegans	1	Promotor
PAG1240RP					Mito

Accession	Gene	Protein	Function	Notes
PAG1240UP	YKR014c	YPT52	GTP-binding protein	Mito
PAG1241RP	YJL080c	SCP160	histone-like protein involved in control of mitotic chromosome transmission	Mito
PAG1241UP				Mito
PAG1242RP	YKR014c	YPT52	GTP-binding protein	Promotor (CAI S.c. 0.21)
PAG1242UP	YJL080c	SCP160	histone-like protein involved in control of mitotic chromosome transmission	1
PAG1243RP	YLR247c		weak similarity to S.pombe RAD8 protein	1
PAG1243UP	YLR248w	RCK2	calcium/calmodulin-dependent SER/THR protein kinase (CAM kinase)	1
PAG1244RP	YBL057c		unknown function, non-essential	1
				former class III, two genes covered by RP-SRS
				former class III, two genes covered by RP-SRS
PAG1244UP	YHR165c	PRP8	U5 snRNP protein, pre-mRNA splicing factor	1
PAG1245RP	YLR264w	RPS33B	ribosomal protein S28.e.c12	1
PAG1245UP	O3364	TY1A	TY1A protein	3
PAG1246RP	YDR531w		hypothetical protein	1
PAG1246UP	YDR527w		hypothetical protein	2
PAG1247RP	YNR044w	AGA1	A-agglutinin anchor subunit	3
				-3,open frames > 400 in +3 and +2

PAG1249RP	YOR244w	similarity to SAS2 protein (Involved in silencing at HMR)	1	Syntenie, see PAG1249UP
PAG1249UP	YOR243c	hypothetical protein	1	Syntenie, see PAG1249RP
PAG1250RP				Mito
PAG1250UP				Mito
PAG1251RP	YCR076c	glycine-rich	3	open frames > 450 nt in +1 and > 400 nt in -3
PAG1251UP	YMR259c	hypothetical protein	2	Terminator
PAG1252RP	YFR015c	UDP glucose--starch glucosyltransferase 1	1	
PAG1252UP	YFR014c	Ca2+/calmodulin-dependent serine/threonine protein kinase type I	1	
PAG1253RP	YGL122c	nuclear poly(A)-binding protein	3	open frame > 500 nt in +2
PAG1253UP	YIL130w	similarity to probable membrane protein YJL206c and Put3p	1	
PAG1254RP	YJR016c	dihydroxy-acid dehydratase (EC 4.2.1.9)	1	Terminator
PAG1254UP	M_D113	hypothetical protein	4	
PAG1255RP	YDR300c	glutamate 5-kinase	1	
PAG1256RP	YGL195w	component of a protein complex required for activation of Gcn2p protein kinase	1	Syntenie, see PAG1256UP
PAG1256UP	YGL194c	high similarity with RPD3 protein (transcription modifier protein)	1	Syntenie, see PAG1256RP
PAG1257RP	YGL147c	ribosomal protein RPL9	1	Terminator
PAG1257UP	YDL117w	hypothetical protein	2	Terminator
PAG1258RP	YOL023w	mitochondrial translation initiation factor 2	1	

PAG1258UP	YPL115c	BEM3	GTPase-activating protein for Cdc42p and Rho1p	1	
PAG1258RP	YBR087w	RFC5	replication factor C subunit 5 (40kDa)	1	Promotor (CAI S.c. 0.15)
PAG1259UP	YBL036c		similarity to Caenorhabditis elegans cosmid F09E5	1	
PAG1260RP	YDR306c		hypothetical protein	2	Promotor, Syntenie, see PAG1260UP, next to tRNA (Val) in S.c.
PAG1260UP	YDR304c	CPR5	cyclophilin of the ER	1	Promotor, Syntenie, see PAG1260RP
PAG1261RP	YLR333c	RPS31B	ribosomal protein S25.e.c12	1	Terminator
PAG1261UP	YLR336c		hypothetical protein	2	Terminator
PAG1262RP	YER069w	ARG5,6	acetylglutamate kinase	1	Syntenie, see PAG1262UP
PAG1262UP	YER068w	MOT2	transcriptional repressor	1	Promotor, Syntenie, see PAG1262RP
PAG1263RP	YJR090c	GRR1	required for glucose repression and for glucose and cation transport	1	
PAG1263UP	YIR019c	STA1	extracellular glucosylase	3	open frame > 400 nt in -1
PAG1264RP	YBL051c		similarity to Schizosaccharomyces pombe protein Z66568_C	4	
PAG1264UP	YHR202w		hypothetical protein	1	
PAG1265RP	YHR143w		similarity to a-agglutinin core protein AGA1	3	open frame 450 nt in -1, same as PAG1176
PAG1265UP	YNL083w		hypothetical protein	1	same as PAG1176

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Accession	Gene	Protein	Function	Notes
PAG1271UP				Mito
PAG1272RP	YDR083w		hypothetical protein	1 Terminator
PAG1272UP	YIR019c	STA1	extracellular glucoamylase	3 open frame whole length in +3 (?)
PAG1273RP	YCR098c		similarity to Pho84p, Itr1p, Itr2p (myo-inositol transporter) and to E. coli citrate transport protein	1
PAG1273UP	YGR160w		questionable ORF	4
PAG1274RP	YOR338w		similarity to FUN19 protein	4
PAG1274UP	YOR347c		similarity to pyruvate kinase Pyk1p	1 Terminator
PAG1275RP	YKL079w	SMY1	member of the kinesin family that can interact with or substitute for Myo2p	3 open frame whole length in -3
PAG1275UP	YKL081w	TEF4	elongation factor eEF-1 gamma chain	2 Intron possible, same position like in S.c., unusual 5'-splice site
PAG1277RP	YKR043c		similarity to phosphoglycerate mutase (EC 5.4.2.1)	1
PAG1277UP	YNR044w	AGA1	A-agglutinin anchor subunit	3 open frame > 500 nt in -1
PAG1278RP	YDL042c	SIR2	protein involved in maintenance of silencing of HMR, HML and telomeres	2 Terminator
PAG1278UP	YOL067c	RTG1	basic helix-loop-helix (BHLH) transcription factor see 2nd Hit (CAI S.c. 0.12)	1 Divergent Promotor of 215 nt, for 2nd Promotor
	YDL007w	YTA5	similarity to human S4 component of 26S	2 divergent Promotor of 215

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PAG1286RP	YBR204c		similarity to peroxisomal serine-active lipase	3	open frame > 400 nt in -3,
PAG1286UP	YIR019c	STA1	extracellular glucoamylase	3	open frames > 500 nt in +1 and -3
PAG1287RP	YBL004w		hypothetical protein	1	
PAG1287UP	YDL003w	RHC21	similarity to S.pombe rad21	2	
PAG1289UP	YKR072c	SIS2	stimulates G1 cyclin expression	1	
PAG1289RP	YGR061c	ADE6	5'-phosphoribosylformyl glycineamide synthetase	4	
PAG1291UP	YKL211c	TRP3	contains anthranilate synthase (EC 4.1.3.27); glutamine amidotransferase (EC 2.6.1.-); indole-3-glycerol-phosphate synthase(EC4.1.1.48)	1	
PAG1292RP					Mito
PAG1292UP					Mito
PAG1293RP	YGL062w	PYC1	pyruvate carboxylase 1	1	
PAG1293UP	YPL187w		MFalpha1;mating pheromone alpha-1 precursor	3	open frames 300 nt in +2 and > 400 nt in +1, check Hom_Class: mating pheromone in S.c. is processed a lot
PAG1294RP	YLR147c	SMD3	snRNA-associated protein of the SM class required for pre-mRNA splicing, snRNP D3 homolog	1	open frame > 300 nt in +3,former class III
PAG1294UP	YDR167w	TAF25	similarity to human TBD-associated factor 30	1	Promotor + Terminator (171

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PAG1302UP	YOR291w		(clone pMP41) - mouse weak similarity to cation translocating ATPases	1	
PAG1303RP	YLR106c		putative membrane protein	3	open frame > 350 nt in +2 or ending frames > 250 nt in -1
PAG1303UP	YGR023w		similarity with Mid2p and Kai1p	3	open frame whole length in -2
PAG1304RP	YNL221c	POP1	component of ribonuclease P and MRP	1	for continuation of Syntenie (also match to YNL221c)
PAG1305RP	YDR192c	NUP42	nucleoporin	3	open frame whole length in -2
PAG1305UP	YNL246w		similarity to D.melargonaster SET protein	2	cannot be checked for Intron, not on sequence of PAG1305UP
PAG1306RP	YDL240w	LRG1	GTPase-activating protein of the rho/rac family	1	
PAG1306UP	YGL133w		similarity with hypothetical protein (chromosome XVI) P1770	3	open frame whole length in +2
PAG1307RP	YKL142w	MRP8	ribosomal protein MRP8, mitochondrial	1	Syntenie, see PAG1307UP
PAG1307UP	YKL145w	CIM5	tat-binding protein homolog; probable protease subunit	1	Syntenie, see PAG1307RP
PAG1308RP	YLL034c		similarity to mammalian valosin	1	divergent Terminator (100 nt), for 2nd Terminator see 2nd Hlt, Syntenie , see PAG1308RP 2nd Hlt

YLL035w	2	divergent Terminator (100 nt), for 1st Terminator see 1st Hit, Syntenie, see PAG1308RP 1st Hit
PAG1308UP	2	Homology due to zinc-finger?
YHL027w	2	single-stranded zinc-finger DNA binding protein required for replication in mitochondria
PAG1309RP	1	copper-transporting P-type ATPase of the cation transport (E1-E2) ATPase family
YDR270w	1	CCC2
PAG1309UP	1	mitochondrial tryptophanyl-tRNA synthetase
YDR268w	1	MSW1
YOR038c	1	histone transcription regulator
PAG1310UP	1	homology to cytidine deaminases (EC 3.5.4.5)
PAG1311RP	1	unknown function
PAG1311UP	1	probable transcription factor; suppressor of Ty transcription
PAG1312RP	2	Ser/Thr protein kinase; limited homology only
PAG1312UP	3	phosphatidylinositol 3-kinase required for G1 progression
PAG1313RP	1	hypothetical protein
PAG1313UP	1	weak similarity to human BRCA2 early onset

	PAG1314RP	YGR023w	breast cancer gene							
	PAG1314UP	YJR151c	similarly with Mid2p and Kai1p	3						open frame > 350 nt In -3
	PAG1315RP	YPR181c	SEC23 similar to proteins of the Srp1p/Tip1p family	4						Syntenie, see PAG1315UP
	PAG1315UP	YPR184w	component of COPII coat of ER-golgi vesicles protein with strong similarity to glycogen debranching enzyme (4-alpha- glucanotransferase)	1						Promotor, Syntenie, see PAG1315RP
	PAG1316RP	YLR440c	hypothetical protein	2						
	PAG1316UP	YLR441c	ribosomal protein S3a.e	1						Promotor
	PAG1317RP	YJL085w	hypothetical protein	1						Syntenie, see PAG1317up
	PAG1317UP	YJL087c	tRNA ligase (EC 6.1.1.-)	1						Syntenie, see PAG1317RP
	PAG1318RP	YIL159w	similarity to BNI1 protein	3						open frames > 300 nt In -2
	PAG1318UP	YER073w	probable aldehyde dehydrogenase (NAD+)	3						open frames > 450 nt In -3 and > 600 nt In +2
	PAG1319RP	YMR277w	hypothetical protein	1						Syntenie, see PAG1319UP
	PAG1319UP	YMR276w	ubiquitin-like protein	1						Syntenie, see PAG1319RP
	PAG1320RP	YOR207c	DNA-directed RNA polymerase (EC 2.7.7.6) III	1						
	PAG1320UP	YMR147w	second-largest chain	4						
	PAG1321RP	YBL020w	RFT1 involved in nuclear division	1						Syntenie, see PAG1321UP
	PAG1321UP	YBL018c	hypothetical protein	1						1st and 2nd Hit divergent Terminator (38 nt), Syntenie, see PAG1321RP and

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PAG1327RP	YER011w	TIR1	cold-shock induced protein of the Tir1p, Tip1p family	4	
PAG1327UP	YLR337w	VRP1	proline-rich protein verprolin	4	
PAG1328RP	YNL201c		involved in regulation of carbon metabolism	2	Syntenie, see PAG1328UP, Classification in Hom_Class 2 according to Syntenie
PAG1328UP	YNL200c		hypothetical protein	1	Syntenie, see PAG1328RP
PAG1330RP	YLL039c	UBI4	ubiquitin precursor	1	100 % Identity on AA-level, 78.3% on DNA, Syntenie, see PAG1330UP
PAG1330UP	YLL036c	PRP19	non-snRNP spliceosome component	1	Most probable Intron In A.g. but NOT in S.c. Syntenie, see PAG1330RP
PAG1331RP	YDR150w	NUM1	nuclear migration protein	2	open frame > 450 nt in -2, 30% ident./140 aa, check Hom_Class: better 3?
PAG1331UP	YNR044w	AGA1	A-agglutinin anchor subunit	3	open frames > 400 nt in +2> 350 nt in +3 and > 350 nt in +3
PAG1332RP	YKL014c		hypothetical protein	3	open frame nearly whole length in +1
PAG1332UP	YJL194w	CDC6	involved in initiation of DNA replication and spindle function	2	Terminator

PAG1334RP	YHR217c		similarity to hypothetical protein (chromosome IV)	3	open frame whole length in -2 and +2
PAG1334UP	YMR038c	LYS7	homocitrate dehydrogenase	1	
PAG1335RP	YKL129c	MYO3	myosin type I	3	open frames whole length in -2 and 300 nt in +3
PAG1335UP	YOR008c	SLG1	similarity to N0583	4	
PAG1336RP	YJR092w	BUD4	required for formation of axial but not bipolar budding pattern	1	Terminator, Syntenie, see PAG1336UP
PAG1336UP	YJR095w	ACR1	protein of the mitochondrial carrier (MCF) family	1	Promotor, Syntenie, see PAG1336RP
PAG1337RP					Mito
PAG1337UP					Mito
PAG1338RP	M_A394		hypothetical transmembrane protein	4	
PAG1338UP	YCR065w	HCM1	transcription factor	2	
PAG1339RP	YDL244w		nearly identical to Thi5p (involved in pyrimidine biosynthesis pathway), YJR156p, and YNL332w (hmt1 homolog to fission yeast and Aspergillus parasiticus)	1	Promotor, YNL332w near telomere
PAG1339UP	YKL213c	DOA1	protein involved in ubiquitin proteolysis	1	Terminator
PAG1340RP	YMR004w	MVP1	required for sorting proteins to the vacuole	1	Terminator, Syntenie (?), see PAG1340UP
PAG1340UP	YMR003w		hypothetical protein	2	Terminator, Syntenie (?), see PAG1340RP
PAG1341RP	YPL242c		hypothetical protein	4	

PAG1341UP	YFL036w	RPO41	mitochondrial DNA-directed RNA polymerase	1	
PAG1342RP	YNR030w		weak similarity to SMP3 protein (functions in the protein kinase C pathway)	2	
PAG1342UP	YPR088c	SRP54	signal recognition particle 54K protein homolog	1	
PAG1343RP	YKL134c	(MIP1)	mitochondrial intermediate peptidase (EC 3.4.24.-) precursor	1	
PAG1343UP	YLR109w		similarity to Candida boidinii peroxisomal membrane protein 20K A	4	UGG tRNA (Pro), pos. 434-545, intron pos.470-509 (40 nt), intron in S.c. 32nt, w/o intron only 1 difference
PAG1344RP					Mito
PAG1344UP					Mito
PAG1345RP	YPL042c	SSN3	cyclin-dependent serine/threonine protein kinase of the RNA polymerase II holoenzyme complex and kornberg's mediator (SRB) subcomplex		
PAG1345UP	YPL040c	ISM1	mitochondrial isoleucine-tRNA ligase (EC 6.1.1.5)	1	Syntenie, see PAG1345UP
PAG1347RP	YBR221c	PDB1	pyruvate dehydrogenase (lipoamide) beta chain precursor	1	Syntenie, see PAG1345RP
PAG1347UP	YGL126w	SCS3	probably involved in the synthesis of inositol phospholipids	2	Promotor (CAI S.c. 0.34)

PAG1349RP	YE1011w	GLC3	1,4-glucan branching enzyme (glycogen branching enzyme)	1	Promotor (CAI S.c. 0.13)
PAG1349UP	YCR017c		putative membrane protein	1	
PAG1350RP	YPR105c		hypothetical protein	2	Promotor, Syntenie, see PAG1350UP
PAG1350UP	YPR106w		similarity to protein Kinases Gen2p, galactosyltransferase-associated		
			protein kinase P58/GTAP, and the raf proto-oncogene	2	Syntenie, see PAG1350RP
PAG1351RP					Mito
PAG1351UP					Mito
PAG1352RP	YFL033c		similarity with to S.pombe CEK1 serine/threonine protein kinase	2	
PAG1353RP	YDR456w		similarity to NA ⁺ -H ⁺ antiporters	2	Terminator
	YML031w	NDC1	component of the nuclear envelope	2	Terminator, Syntenie, see PAG1335UP 1st Hit
PAG1353UP	YML029w		putative membrane protein	2	Terminator, Syntenie, see PAG1353RP 2nd Hit
PAG1354UP	YOR017w	PET127	probable mitochondrial translation factor	2	
PAG1355RP	YCR092c	MSH3	DNA-repair protein	2	Syntenie, see PAG1355UP, order wrong
PAG1355UP	YCR094w		homology to hypothetical protein YNL323w and EST from rice	2	Syntenie, see PAG1355RP, order wrong
PAG1356RP	YKR092c	SRP40	weak suppressor of a mutant of the subunit	3	open frame whole length in

[illegible]

					sequence of(PAG1363RP	
PAG1364UP	YGL142c	hypothetical protein	1			
PAG1365RP	YIL011w	similarity to YIL176p, YIR041p and other members of the Srp1p/Tip1p family				
			3	open frame whole length in +3 (?)		
PAG1365UP	YHR144c	deoxycytidylate deaminase (EC 3.5.4.12)	1			
PAG1366RP	YLR413w	homology to hypothetical protein YKL187c	3	open frame whole length in +2		
PAG1366UP	YKL188c	similarity to human adrenoleukodystrophy (ALD) protein and yeast peroxisomal protein Pal1p	1			
PAG1367RP	YHR089c	associated with snoRNA and involved in 35S rRNA processing	1			
PAG1367UP	YBR115c	L-aminoadipate-semialdehyde dehydrogenase	1			
PAG1368RP	YDL171c	putative glutamate synthase	1			
PAG1368UP	YNR012w	uridine kinase	1			
PAG1369RP	YPR175w	DNA-directed DNA polymerase II chain B	1	Terminator, Syntenie, see PAG1369UP, same as PAG1144		
PAG1369UP	YPR179c	hypothetical protein	1	Syntenie, see PAG1369RP, same as PAG1144		

PAG1370RP	YJL102W	MEF2	translation elongation factor	2		
PAG1370UP	YKR026c	GCN3	translation initiation factor eIF2B (guanine nucleotide exchange factor), 34 KD, alpha subunit		1	Terminator
PAG1371RP	YFR050c	PRE4	proteasome subunit	1		
PAG1371UP	YGL246c		hypothetical protein	1		
PAG1372RP						Mito
PAG1372UP						Mito
PAG1373RP				4		seems to be Mito but PAG1373UP is not, Chimera? strong homology to S.c. mitochondrial ATPase (72%/48aa)
PAG1374RP	YDL105W	QRI2	function unknown	2		
PAG1374UP	YMR167W	MLH1	mismatch repair protein	1		Terminator
PAG1375RP						Mito
PAG1378RP						Mito
PAG1378UP						Mito
PAG1379RP	YJL083W		homology to hypothetical protein YKR019c	1		Syntenie, see PAG1379UP
PAG1379UP	YJL084c		homology to hypothetical protein YKR021w	1		Syntenie, see PAG1379RP
PAG1380RP	YCL043c	PDI1	protein disulfide-isomerase precursor	1		Syntenie, see PAG1380UP
PAG1380UP	YCL040W	GLK1	aldohexose specific glucokinase	1		Syntenie, see PAG1380RP
PAG1381RP						Mito

PAG1390RP							PAG1389RP	
PAG1390UP							Mito	
PAG1391RP		YPR189W	SKI3		antiviral protein		Mito	
PAG1391UP		YPR190c	RPC82		DNA-directed RNA polymerase III chain	1	Syntenie, see PAG1391UP	
PAG1392RP		YLR274W	CDC46		acts in a complex at ARS's to initiate dna replication	1	Syntenie, see PAG1391RP	
PAG1393RP		YGL240W			hypothetical protein	1		
PAG1393UP		YGL241W			similarity to Cse1p (probable kinetochore protein, 17% identity over 1053 amino acids)	1	Syntenie, see PAG1393RP	
PAG1394RP		YBR176W			homology to E.coli 3-methyl-2-oxobutanoate			
PAG1394UP		YPL101W			hydroxymethyltransferase	1		
PAG1396RP		YNR023W			hypothetical protein	1		
					similarity to YCR052p	1	Terminator, Syntenie, see PAG1396UP	
PAG1396UP		YNR021W			probable membrane protein	2	Syntenie, see PAG1396RP	
PAG1397RP		YGR098c	ESP1		required for normal spindle structure	2	only 1 gene on clone	
PAG1397UP		YGR098c	ESP1		required for normal spindle structure	1	only 1 gene on clone	
PAG1398UP		YMR291W			putative protein kinase	2		
PAG1399RP		YDR338c			similarity to hypothetical protein YHR032w	1		
PAG1399UP		YJL158c			member of the Pir1p/Hsp150p/Pir3p family	1	Terminator	
		YKL163W	PIR3		member of the Pir1p/Pir2p/Pir3p family	1	Terminator	
PAG1399UP		YKL164c	PIR1		required for tolerance to heat shock	1	Terminator	

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PAG1400RP	YDL167c	ARP1	unknown function	1	
PAG1400UP	YLR200w		similar to KE2 protein (Mus musculus), encoded in MHC region and expressed in embryo	1	
PAG1401RP	YDR406w	PDR15	Member of ATP-binding cassette (ABC) protein family	1	very good homology to YOR153W
PAG1401UP			has 43/45bases identity to rDNA transcription end. the rest might be the promoter region of YDR406w which was hit with the RP-SRS	2	Chimeric plasmid?
PAG1402RP	YOR023c		unknown function	1	
PAG1402UP	YOR161c		unknown function	1	
PAG1403RP	YBR280c		YBR280c:sim to SRM1p/PRP20p YJL068c:sim to human esterase D	1	Syntenie two genes covered by RP SRS;end of syntenie
PAG1403UP	YBR281c		has beta-transducin (WD40) repeats	1	
PAG1404RP	YPL012w	Lpa5p	unknown function	1	syntenie
PAG1404UP	YPL014w	LPA3	unknown function	1	mito ribosomal S24 protein
PAG1405RP				4	
PAG1405UP	YHR086W	NAM8	protein essential for meiotic recombination and suppressor of MT-splicing defects, has 3 RNA recognition domains	1	

PAG1406RP	YHR007C	ERG11	Cytochrome P450 L1 (14DM) (Lanosterol 14-alpha-demethylase)	1	Chimeric Plasmid
PAG1406UP	YPL026c	SHA3	Ser/Thr-protein kinase, suppressor of Hta 1p mutations that cause aberrant transcription	1	
PAG1408RP	MITO-DNA				
PAG1408UP	YBR072w	HSP26	YEAST HEAT SHOCK PROTEIN 26 expressed during entry to stationary phase and induced by osmostress	1	
PAG1409RP	YPR154W		YPR153W:unknown function, gene may be spliced; YPR154w:protein with sim to several SH3 domain-containing proteins including myosin ID and IC heavy chains, human growth factor receptor-bound grb2 protein, C.elegans sex muscle abnormal protein 5	1	syntenic, two genes covered by RP-SRS;
PAG1409UP	YPR153W YPR156c		member of the major facilitator superfamily (MFS) multidrug resistance proteins family 1	1	YPR155c:NCA2:protein required for CTRL of MT synthesis of ATP6 and ATP8;Hit no 1:YGR138C (putative drug transporter) neglected due to syntenic
PAG1410RP	YOR116c		YOR116c: RPO31: RNA-POLIII largest subunit	1	syntenic

PAG1410UP	YOR117w:	YOR117w: YTA1: Syntenie: subunit of 26S proteasome complex	1	syntenie	
PAG1412RP	YJR153w	and member of the ATPase family	1		
PAG1412UP		sim to polygalacturonases	4		
PAG1413RP	YDR150w	NUM1	1	syntenie ;should contain the N-term of NUM1	
PAG1413UP	YDR152w	unknown function	1	Syntenie	
				YDR151c:CTH1:protein of the mammalian growth factor induced proteins, len 325 aa	
PAG1414RP	YLR272c	unknown function	1		
PAG1414UP			4		
PAG1415RP	YGR271w	seems to be an RNA-helicase related protein;	1	just one gene on this plasmid	
PAG1415UP	YGR271w	has sim to Yer172p; has A(P-loop)	1	UP-SRS covers 1917aa to 1676aa	
PAG1416RP	YLR430w	SEN1	1	codons1790 up to 1971;C-term including terminator should be on this plasmid;syntenie	
PAG1416UP	YLR432w	protein highly similar to to PUR5p and inosine-	1	syntenie	

5'-monophosphate of human and E.coli, has
sim to YML056c (which was actually hit no 1)

PAG1417RP	YPR183w	Dolichol-phosphate mannosyltransferase	1	syntenie.SMX3:YPR182w: SnRNA associated protein
PAG1417UP	YPR181c	SEC23	1	syntenie
PAG1418RP	YCL060c	Protein transport protein	1	syntenie
PAG1418UP	YCL061c	protein with sim to SDL1 L-serine dehydratase	1	syntenie
PAG1419RP	YLR219w	unknown function	1	syntenie
PAG1419UP			2	
PAG1420RP	YJR107w	sim to acylglycerol lipase	4	
PAG1420UP	YJR014w	YJR014w: unknown	1	two genes covered by UP-
PAG1421RP	YNL075w	functionYGR198w:unknown function	1	SRS
PAG1421UP		unknown function	1	
PAG1422RP	YGL091c	only sim with Ser/Thr rich sequences	4	
	YGL092w	NBP35: nucleotide binding protein (ATP/GTP)	1	syntenie
PAG1422UP	YGL092w	nuclear pore protein (nucleoporin)	1	
	YGL092w		1	Hit no 1 to YGL172w
				corresponds to NUP49 and
				was disregarded due to
				syntenie
PAG1423RP	YDR189w:	SLY1		
		SLY1		

SLY1: YDR189w: member of the SEC1-family,

Gene	Accession	Protein	Function	Notes
PAG1423UP	YDR191W	HST4	involved in vesicle trafficking between the ER and Golgi	1 syntenic
PAG1424RP	YDR191W	HST4	sim to SIR2	1 has A(P-loop)
PAG1424UP	YDR191W	HST4		4
PAG1425RP	YLR187W		YLR187W unknown function, sim to YNL278W	1 YNL278W was hit no 5; gives weak indication of syntenic or a probable homology region for chromosomal rearrangements
PAG1425UP	YNL279W		probable membrane protein	1 weak syntenic
PAG1426RP	YDR196C		unknown function, has A(P-loop)	1 two genes covered with RP-SRS
PAG1426UP	YDR197W	CBS2	CBS2: translational activator of COB mRNA, non-essential	
PAG1427UP	YDR194C	MSS16	MSS16: MT RNA helicase of the DEAD box family required for splicing of group II introns of COX1 and COB	1 syntenic; neighboring-clone to SLY1
PAG1427RP	YLR214W	FRE1	ferric (and cupric) reductase, acts on ferric iron chelates external to the cell	1 syntenic; two genes with RP-SRS
PAG1427UP	YDL143W	CCT4	Component of chaperonin containing T-complex	1 syntenic end of syntenic

YLR215C	1	same gene sequenced with RP-SRS
PAG1428RP	1	syntenic, whole gene on plasmid
PAG1428UP	1	start of gene, syntenic. Two genes covered by UP-SRS
YDL061c	1	syntenic. Two genes covered by UP-SRS; identical to YLR388w
PAG1429RP	4	
PAG1429UP	1	protein with weak sim to human bcr (break point cluster) protein
PAG1430RP		YLR213C : unknown function, has WAP-type 'four disulfide core'
	1	domain signature
YDL144C	1	unknown function
PAG1430UP		YDL145c: RET1; N-Term has 4 WD-beta transducin repeats.
	1	Coatmer complex alpha chain
PAG1431RP	1	protein with sim to transcription factors, has Zn(2)-Cys(6) fungal-type binuclear cluster domain in the N-terminal

	PAG1431UP	YMR270C	RRN9	region	
				component of the upstream activation factor (UAF)-complex, Involved in activation of RNA polymerase I promoter; non-essential	1
	PAG1432RP			sim to proline rich sequences	4
	PAG1432UP	YDR330W		Small region of similarity near C-terminus to Undulin extracellular matrix glycoprotein	1
	PAG1433RP	YBR141c		unknown function	1 involved in maintenance of M dsRNA killer plasmid
	PAG1433UP	YBR143c	SUP45	SUP45.recessive omnipotent suppressor, translational release factor eRF1	1 syntenic
	PAG1434RP				4
	PAG1434UP	YCR065w	HCM1	HCM1 hom to forkhead. Has a transcriptional activation domain of <i>Drosophila fkh homeotic gene</i>	1
	PAG1435UP				4
	PAG1436RP	YCR093w	CDC39	nuclear protein that negatively affects basal transcription from many promoters, mutants activate the pheromone response pathway at the level of the G-proteins	1 N-term up to aa570 on plasmid
	PAG1436UP	YKL215c		protein with sim to <i>Pseudomonas</i>	1

PAG1437RP	YOR224C	RPB8	hydanoinases hyuA-hyuB	1	syntenie. Two genes with RP-SRS
	YOR226C		protein with sim to nitrogen fixation proteins	1	Hit no3 was YPL135w:LP110:protein with sim to H. influenza nitrogen fixation protein HIU32721-12 which was equally good as hit no 2. Taken this we reach syntenie to PAG1437UP
PAG1437UP	YPL133c	LP112	protein with sim to transcription factors, has Zn(2)-Cys(6) fungal type binuclear cluster domain in the N-terminal region	1	syntenie
PAG1438RP	YJR132w	NMD5	Nam7p/Upf1p interacting protein. Nam7p: protein involved in decay of mRNA containing nonsense codons	1	
PAG1438UP	YBR079c		protein homologous to surface antigens from trophoblast endothelial		
PAG1439RP	YGR276c		activated lymphocytes and P.falciparum	1	
PAG1440RP	YGL137w	SEC27	unknown function	1	
			Coatomer complex beta chain of secretory pathway vesicles required for transport from ER	1	syntenie. Two genes with RP-SRS. C-term must be

Gene	Accession	Protein	Notes	Count	Notes
		to Golgi, member of beta-transducin WD40 repeat family	shorter in the AG-gene		
	YGL136c	protein with sim to E.coli ftsJ protein		1	syntenie. Dual terminator
PAG1440UP	YGL134w	unknown function		1	YGL134w-YGL137w
					Syntenie. YGL134w:
					unknown; 135w: SSM1B:
					ribosomal protein
					homologous to L1; 136c:
					protein with sim to E.coli
					ftsJ protein; 137w: SEC27
PAG1442RP	YLR149c	unknown function		1	syntenie
PAG1442UP	YLR150w	MPT4: protein with specific affinity for guanine rich quadruplex nucleic acids and multicopy suppressor of pop2;G4 quadruplex nucleic acid binding protein; multicopy suppressor of tom1 and pop2 mutations		1	syntenie
PAG1443RP	YGL141w	unknown function		2	
PAG1443UP	YMR171c	Aldehyde dehydrogenase2		1	or rather YMR170c
PAG1444RP	YFR042W	unknown function		1	
PAG1444UP	YGL232w	protein with sim to dlhydropteroate synthase		1	
PAG1445RP				4	
PAG1445UP	YOR281c	protein with weak sim to phosducins		1	
PAG1446RP	YHR077C	NMD2 protein involved in decay of mRNA containing nonsense codons		1	syntenie. Two genes with RP-SRS

Gene	Accession	Protein	Function	Notes
YHR076W	YHR076W	unknown	unknown	1 syntenie. Two genes with RP-SRS
PAG1446UP	YHR077C	NMD2	Required for vacuole segregation and vacuolar protein sorting	1 N-TERM OF GENE
	YDR323C	VAC1		1 syntenie End of syntenie
PAG1447RP	YPR061C		sim to E.coli DnaJ and other DnaJ-like proteins	1 YPR062W: len 158aa; protein with sim to members of the cytidine and deoxycytidylate deaminase family.
				YPR063C: len 140aa, unknown. YPR064W: unknown, len 139aa questionable ORF; SYNTENIE
PAG1447UP	YPR065W	ROX1	Heme dependent transcriptional repressor of hypoxic genes including CYC7; N-terminal domain with sim to HMG-box proteins	1 syntenie
PAG1448RP	YKL025C		unknown function	1
PAG1448UP	YIR036C		CHR IX: Short-chain alcohol dehydrogenase family signature; YIR036C and YIR035C: sim to human corticosteroid 11-beta-dehydrogenase and short-chain alcohol dehydrogenase family	1

PAG1449RP	YPL041c	1	unknown function	1	syntenie; YPL040c:ISM1:Isoleucyl- tRNA synthetase of mitochondria; YPL042c: SSN3: cyclin dependent Ser/Thr protein kinase of the RNA Pol II holoenzyme syntenie
PAG1449UP	YPL043w	NOP4	nucleolar protein required for ribosome biogenesis	1	syntenie
PAG1450RP	YMR109w		protein with sim to myosin heavy chain homolog YKL129 (76% Id over 1090 AA)	1	syntenie
PAG1450UP	YMR108w	ILV2	Acetolactate synthase, first step in the valine and isoleucine biosynthesis pathway	1	
PAG1452RP	YBR269c		unknown function	1	syntenie
PAG1452UP	YBR268w	MRPL37	Mito protein of the large ribosomal subunit	1	syntenie
	YJL062w		unknown function	1	end of syntenie. Two genes with UP-SRS
PAG1453RP	MITO-DNA			1	
PAG1453UP	MITO-DNA			1	
PAG1454RP	YBR229c		protein with sim to alpha 1,4 glucosidase.	1	syntenie
PAG1454UP	YBR225w		YBR225w-Ybr229c Syntenie. YBR225w, YBR226c both of unknown function. 227c: protein with sim to E.coli ATP-	1	syntenie. Two genes with

Accession	Gene	Protein	Function	Notes
PAG1455RP	YMR131C	unknown, member of the WD-40 family(?)	1	UP-SRS
PAG1455UP	YOL155C	protein with hom to <i>S. cerevisiae</i> 1,4 alpha glucosidase	2	overlapping ORF to YBR225w. Syntene
PAG1456RP	YPR034W	has 28% id to ACT1p over 66 aa	1	syntene; YPR035w: GLN1; Glutamine synthetase, combines ammonia to glutamate in ATP- driven reaction
PAG1456UP	YPR036C	protein involved in Vacuolar H(+)-ATPase assembly or function	1	syntene
PAG1457RP	YPR072W	protein with sim to Not3p. has 44% id over 148 aa with Not3p, has sim to N-term of CDC36p, has potential coiled-coil domain at the N-term.	1	syntene YPR073c: LTP1; protein tyrosine phosphatase with sim to a phosphatase from bovine heart and human placenta homologous to <i>S.pombe</i> <i>stp1+</i> which is a multicopy-suppressor of <i>cdc25</i>
PAG1457UP	YPR074C	Transketolase1	1	syntene
PAG1458RP			4	

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PAG1463UP	YBR057c	MUM2	protein with sim to ubiquitin C-terminal hydrolase	1	
PAG1464RP	YOL119c		with weak sim to mammalian monocarboxylate transporter proteins	1	syntenic; YOL118c: unknown, len 102 YOL117w: unknown, len 645
PAG1464UP	YOL116w	MSN1	transcriptional activator for genes regulated through SNF1p, multicopy		
PAG1465RP	YFL046W		suppressor of invertase defect in snf1 mutants	2	syntenic
	YFL045c	SEC53	unknown function	1	syntenic
PAG1465UP	YLR078c	BOS1	Phosphomannomutase, involved in the synthesis of GDP-mannose and dolichol-phosphate-mannose	1	syntenic; end of syntenic defined; two genes covered by RP-SRS
			Vesicular transport protein Synaptobrevin (-SNARE) homolog		
PAG1466RP			involved in ER to Golgi transport	1	
PAG1466UP	YMR196w		unknown function	4	complete gene should be on this plasmid
PAG1467RP	YIL144w		protein with sim to myosin heavy chain, possible coiled coil	1	syntenic; YIL145c: len 345aa: with sim to E.coli pantoate beta-alanine ligase (pantothenate

Accession	Gene	Protein	Function	Notes
PAG1467UP	YIL146C		unknown function	synthetase)
PAG1468RP	YER133w	GLC7n	protein SER/THR phosphatase PP1 required for glucose repression,	1 syntenie
PAG1468UP	YGL200c	EMP24	probably functions antagonistically to SNF1p component of the COPII coat of certain ER derived vesicles	1
PAG1469RP	YHR098c		protein with unknown function	1 Syntenie
PAG1469UP	YHR097c		unknown function	1 syntenie
PAG1470RP	YOR172w		protein with sim to transcription factors, has Zn(2)-Cys(6) fungal-type binuclear cluster domain in the N-terminal region	1 identical to 1155,1470,1527,1535,1546,1595
PAG1470UP	YNR043w	ERG19	Mevalonate kinase, generates mevalonate-5-phosphate from mevalonate, needed for ARS-CEN plasmid stability (regulation of autonomous replication)	1 identical to 1155,1470,1527,1535,1546,1595
PAG1471RP	YHR096c	HXT5	Highly similar to hexose transporters HXT2 and HXT4 (<i>S. cerevisiae</i>)	1 syntenie due to the transporter genes ; continued syntenie with plasmid PAG1469RP/UP
PAG1471UP	YHR094C	HXT1	HEX1:Hexokinase II, converts hexoses to	1 chosen due to syntenie, the

				hexose phosphates in glycolysis and plays a regulatory role in glucose repression	other	hits(YJL214W:HXT8;YDR3 45C; YLR081W) had no higher sim.
PAG1472RP	YDR016c			unknown function	1	weak case of syntenie
PAG1472UP	YDR014w			hypothetical protein	2	weak syntenie
PAG1473RP	YMR097c			has ATP/GTP-binding site motif	1	syntenie
PAG1473UP	YMR094w	CTF13		kinetochore proteinCbf3, subunit c	1	syntenie; YMR096w: len 297aa, sim to YFLO59p and YNL333p.YMR095c: len 224aa, sim to YML334p
PAG1474RP	YOR070c			unknown	1	
PAG1474UP	YKR081c			unknown	1	
PAG1475RP					4	
PAG1475UP	YPR190c	RPC82		RNA-POL III, third largest subunit	1	
	YGR049w			Similar to Scm4p (SCM4_YEAST), possible Cdc4p-interacting protein.	1	
PAG1476RP	YML091c	RPM2		Ribonuclease P of MT, generates mature tRNA molecules by cleaving their 5' ends	1	
PAG1476UP	YML126c	HMG5		3-hydroxy-3-methylglutaryl coenzyme A synthase, functions in mevalonate synthesis	1	located near TUB3/YML124c

PAG1477RP	YER093c	unknown function	1	syntenie	
	YNL116w	unknown	1		
PAG1477UP	YER091c	Homocysteine methyltransferase, methionine synthase; 5-methyltetrahydropteroyl triglutamate--homocysteinemethyltransferase-	1	syntenie.YER092w:len 125:unknown	
PAG1478RP	YER022w	component of RNA-POLII holoenzyme and Koberg's mediator (SRB)			
		subcomplex, required for basal transcription	1	syntenie	
PAG1478UP	YER021w	Component of 26S proteasome complex	1	syntenie	
PAG1479UP	YJR091c	protein that when overexpressed can suppress the hyperstable microtubule phenotype of tub2-150	4		
			1	almost all of the ORF on this plasmid starting from codon 20	
PAG1480RP	YMR167w	Mismatch repair protein and homolog of E.coli MutL Involved in repair of small insertions	1	syntenie; YMR168c:CBF3b, len 608aa YMR169c:ALD3, len 506aa	
PAG1480UP	YMR170c	Aldehyde dehydrogenase	1	syntenie	
PAG1482RP	YLR214w	Ferric (and cupric) reductase, acts on ferric iron chelates external to the cell	1	syntenie	
PAG1482UP	YLR215c	unknown function	1	syntenie	
PAG1483RP	YDL171c	Glutamate synthase, involved with glutamine synthase in glutamate biosynthesis	1		

PAG1483UP	YNR013c	protein with sim to Pho87p and YJL198p, member of the phosphate permease family, 12 TMD	1	
PAG1484RP	YNR006w	protein involved in vacuolar sorting	1	
PAG1484UP	YPL256c	G1/S-specific cyclin, interacts with CDC28p		
		protein kinase to control the events at START	1	
PAG1485RP		pre-tRNA-leu	1	redundant
PAG1485UP	YGL170c	with sim to phosphoribulokinase precursor (phosphopentokinase)	2	
PAG1486RP	YNL161w	SER/THR protein kinase of unknown function; related protein from N.crassa is required for hyphal elongation, has sim to DBF2, DBF20, YPK1, YPK2, and TPK2, strong sim to cAMP-dependent protein kinases like cot-1 and human myotonic dystrophy kinase MDK	1	
PAG1486UP	YHR142w	unknown function, has 7 potential TMD	1	
PAG1487RP	YOR036w	PEP12:Syntaxin(t-SNARE) involved in Golgi to vacuole transport, len 288aa	1	disturbed syntenie . Two genes covered with RP-SRS
	YDR267C	protein with sim to SEC13 and other proteins with WD-40 repeats; has sim to transcription factors	1	disturbed syntenie
PAG1487UP	YOR038c	HIR2:Histone transcription regulator, required	1	disturbed syntenie

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PAG1493RP	YPL243w	SRP68	SEC61,62,66 and KAR2p	1	syntenie
PAG1493UP	YPL246c		signal recognition particle subunit	1	syntenie.YPL245w: has A(P-loop), len 454 YPL244c:len 339
			unknown function	1	
PAG1494RP	YOL095c	HRE571	sim to S. aureus helicase pcrA	1	syntenie.YOL094c:RFC4:le n323aa, replication factorC
PAG1494UP	YOL093w		unknown function	1	syntenie. End of syntenie
PAG1495RP	YJL007		unknown function	1	syntenie. End of syntenie
	YGL227w		with sim to Dictyostelium non-receptor tyrosine kinase U32174; contains WW(WWP) domain of about 40aa which is also found in dystrophin, Rsp5p, and Ess1p	1	
PAG1495UP				4	
PAG1496RP	YER020w	GPA2	guanine nucleotide binding protein alpha subunit involved in regulation of the cAMP pathway during mating	1	
PAG1496UP	YJR109c	CPA2	Carbamoylphosphat synthase, arginine specific	1	
PAG1497RP	YPL022w	RAD1	component of the nucleotide excision repairosome, homolog of human XPF xeroderma pigmentosum gene rproduct and the mammalian ERCC-4 protein, required for double-strand-break induced recombination	1	

PAG1497UP	YPL016w	ADR6	SWH1; Component of the SWI/SNF global transcription activator complex, acts to assist gene-specific activators	1	end of gene covered by RP-SRS
PAG1498RP	YOR021c		unknown function	1	
PAG1499UP	YPR133c		unknown function	1	
PAG1500RP	YOL094c	RFC4	replication factor c	1	
PAG1500UP				4	
PAG1501RP	MITO-DNA		align		
PAG1501UP	MITO-DNA		align		
PAG1502RP	YLR058w	ERG3	ERG3:C-5 sterol desaturase, an iron non-heme oxygen-required enzyme of the ergosterol biosynthesis pathway, ER retention signal	1	syntenie;
PAG1502UP	YPL055c	SPT8	member of the TBP class of SPT proteins that alter transcription start	1	syntenie
			site selection, functionally related to SPT3p and TBP		
PAG1503RP	YNL297c		unknown	1	syntenie
PAG1503UP	YNL294c		unknown, has 6 potential TMD	1	YPL296w: q-ORF, len 104.YPL295w: len 524, unknown
PAG1504RP	MITO-DNA				
PAG1504UP	MITO-DNA				
PAG1505RP	YOR007c		sim to protein phosphatases	1	
PAG1505UP	YML002W		unknown function	1	syntenie. Two genes

[illegible]

PAG1514RP	YNL126W	sim to YJL207p	1	same as PAG1699
PAG1514UP	YHR121W	unknown function	1	same as PAG1699
PAG1515RP	YFR007W	unknown function	1	
PAG1515UP	YGR021W	unknown function	1	
PAG1516RP	YPL072W	unknown function	1	syntenie
PAG1516UP	YPL074W	strong sim to YTA4p, member of the CDC48/PAS1/SEC18(AAA) family of ATPases and probable regulatory subunit of the 26S proteasome complex	1	syntenie;there is no YPL073
PAG1517RP	YPR190C	RNA-POL III, third largest subunit	1	syntenie
	YPR189W	end of gene on this SRS Antiviral protein with tetratricopeptide (TPR) repeats, part of a system to protect cells from dsRNA viruses	1	two genes covered by RP-SRS. Syntenie
PAG1517UP	YPR189W	sequence begins at codon 504	1	syntenie
PAG1519RP	YBR112c	general repressor of trans-cription that is brought to target promoters by sequence specific DNA-binding proteins, has tetratricopeptide TPR repeats	1	
PAG1519UP	YPR070W	unknown function	1	
PAG1520RP	YDL100c	with sim to E.coli arsenical pump-driving ATPase, has amino- transferases class-V pyridoxalphosphateattachment site	1	
PAG1520UP	YMR157c	unknown function	1	
PAG1521RP	YDL145c	RPC128:RNA-POL III , secondlargest subunit	1	
		RET1		

PAG1521UP	YLR213c	unknown:has WAP-type 'four-disulfide core' domain signature	1	
PAG1522RP			4	
PAG1522UP	YPR015c	YPR013c:with sim to mouse REX1 encoded transcription factor, contains C2H2-type zinc finger domain; YPR015c :same type of zinc finger	1	
PAG1523RP	YML006C	unknown function, has prenyl group binding site (CAAX)-motif	1	
PAG1523UP	YDR421W	unknown function, has a (P-loop)	1	syntenic
PAG1524RP	YPR049C	unknown function, has a probable coiled coil	1	syntenic
PAG1524UP	YPR048W	protein with sim to NAPDH-cytochrome P450 reductase, has a MT energy transfer proteins signature	1	covered by UP-SRS
	YPR047W	also YLR168c:protein possibly involved in intra-mitochondrial sorting	1	syntenic over three genes
PAG1525RP			4	
PAG1525UP	YOR362c	proteasome subunit Y13	1	two genes covered on UP-SRS
	YAL047c	unknown function	1	two genes covered by UP-SRS
PAG1526RP	YJL111W	component of chaperonin-containing T-complex (FKB1)	1	
PAG1526UP	YNL135c	FK506-binding protein, homolog of human FKBP12, human FKBP12 is functional	1	

PAG1527RP	YOR172w	ERG19	1	identical to 1155,1470,1527,1535,1546 ,1595	in yeast, has peptidyl-proly isomerase activity; produces lethal complex with rapamycin with sim to transcription factors
PAG1527UP	YNR043w	ERG19	1	identical to 1155,1470,1527,1535,1546 ,1595	Mevalonate diphosphate-decarboxylase, functions in the polyisoprene biosynthesis pathway
PAG1528RP	YLR430w	SEN1	1	one gene on plasmid; covering codons 1356 to1588	positive effector of tRNA-splicing endonuclease, required for intron cleavage for all ten precursor tRNA families
PAG1528UP	YLR430w	SEN1	1	one gene on plasmid covering codons 132 to 365	unknown function has strong sim to YNL278w
PAG1529RP	YLR187w		1	syntenic	ATP-binding cassette (ABC)-transporter family member, equivalent to a "half-molecule" ABC
PAG1529UP	YLR188w	MDL1	1	syntenic	protein plus an ATP-binding domain, has sim to mammalian multidrug resistance protein and peptide transporter TAP
PAG1530RP	YGR277c		1	syntenic, same as PAG1538	sim to CTR1 (cholin permease)=HNM1; has multiple membrane spanning domains
PAG1530UP	YGR279C		1	syntenic, YGR278w:unknown n, same as PAG1538	unknown function
PAG1531RP	YCL057w	PRD1	1		Proteinase yscD, saccharolysin, homologous to

PAG1531UP				rat metallo- endopeptidase, contains zinc metallopeptidase motif HEXXH	4	
PAG1532RP	YIL144w			protein with sim to myosin heavy chain, possibly coiled-coil	1	syntenie
PAG1532UP	YIL145c			sim to E.coli PANTOATE-BETA-ALANINE LIGASE	1	syntenie
PAG1533RP	YJR052w	RAD7		nucleotide excision repair protein involved in G2 repair of inactive genes	1	
PAG1533UP	YPR194c			unknown, has sim to S.pombe C-terminal region of ips4	2	
PAG1534RP	YOR165w			unknown function	1	syntenie
PAG1534UP	YOR163w			unknown function	1	syntenie.YOR164c:unknown n function
PAG1535RP	YOR172w			sim to ts factor	1	identical to 1155,1470,1527,1535,1546,1595
PAG1535UP	YNR043w	ERG19			1	identical to 1155,1470,1527,1535,1546,1595
PAG1536RP	YJR085c			unknown function	1	
PAG1536UP	YPR040W			unknown function, has sim to a C.elegans protein	1	
PAG1537RP	YER164w			with sim to mouse chromodomain-helicase-		

Accession	Gene Name	Protein Name	Function	Notes
PAG1537UP			DNA-binding protein, contains putative Myb DNA-binding domain	1
PAG1538RP	YGR277c		protein with sim to CTR1:copper transport protein, required for high-affinity uptake of copper (=HNM1)	4
PAG1538UP	YGR279c		unknown, but related to YMR305p	1
PAG1540RP	YML061C	PIF1	single-stranded DNA-dependent ATPase and 5'-3' DNA helicase required for maintenance and repair of MT-DNA, also functions in nucleus to regulate telomere length	1
PAG1540UP	YML060w	OGG1	DNA glycosylase, excises 7,8-dihydro-8-oxoguanine and Fapy residues from DNA	1
PAG1541RP	YDR035w	ARO3	2-dehydro-3-deoxyphosphoheptanate aldolase, phenylalanine inhibited	1
PAG1541UP	tRNA-Asp		closest to YDR035w is a copy at YDR058	1
PAG1542RP	YIR019c	STA1	Glucoamylase (alpha-1,4-glucan glucosidase), extracellular enzyme	2
PAG1542UP	YMR241W		protein with sim to MT-carrier family proteins, has prokaryotic	1
PAG1544RP	YDR316w		membrane lipoprotein lipid attachment site	1
			unknown function; Weak similarity to E. coli	1
			hypothetical 28.1 kD protein in udp-fah region	

Accession	Gene	Protein	Function	Notes
PAG1544UP	YHR070W	unknown function	1	
PAG1545RP			4	
PAG1545UP	TRX1	Thioredoxin 1:required for vacuolar inheritance	1	
PAG1546RP	YOR172W	protein with sim to transcription factors	1	identical to 1155,1470,1527,1535,1546,1595
PAG1546UP	ERG19	Mevalonate diphosphate decarboxylase, functions in polyisoprene biosynthesis	1	identical to 1155,1470,1527,1535,1546,1595
PAG1547RP	YDR371W	with sim to chitinases, has chitinases family 18 active site signature, has sim to Aphanocladium album chitinase	1	
PAG1547UP	PFY1	Profilin, can act to prevent actin polymerization and to complex with monomeric actin; C-terminus is implicated in actin binding	1	two genes covered by UP-SRS. Syntenie
PAG1548RP	YOR123C	unknown function, extremely hydrophilic	1	syntenie
	YER056C	Cytosine/purine permease	1	syntenie;between 56c and 62c are 56cA(L34, len 121), 57c(unknown len 129), 58w (PET11, len87aa), 59w (sim

Accession	Gene	Protein	Function	Notes
PAG1548UP	YER062c	HOR2	DL-glycerol phosphatase, strong sim to GPP1	1 syntenic
PAG1549RP	YNL162w	RPL41A		1 syntenic
PAG1549UP	YNL163c	EF4	translation elongation factor EF4	1 syntenic
PAG1550RP	YLR440C		unknown function, has carbamoyl-phosphate synthase subdomain	
PAG1550UP	YML060w	OGG1	signatures	1 redundant clone?
PAG1551RP			DNA-glycosylase	1 redundant?
PAG1551UP	YLR095c		unknown function	4
PAG1552RP	YDL008w		unknown function	1
				1 end of syntenic; two genes covered from RP-SRS
PAG1552UP	YBR011c	IPP1	Inorganic pyrophosphatase, cytoplasmic	1 syntenic
	YBR009c	HHF1	Histone H4	1 syntenic; YBR010w=HHT1 which is Histone H3
PAG1554RP	YGR277c			1 redundant? Syntenic
PAG1554UP	YGR279c			1 syntenic, redundant?
PAG1555RP	YDL080w		unknown function	1 syntenic; redundant?
PAG1555UP	YDL061c	RPS29B	YEAST 40S RIBOSOMAL PROTEIN YS29B.	1 syntenic
PAG1556RP	YPR070w		unknown	1

PAG1556UP	YBR112c	SSN6	1	redundant?	
PAG1557RP			4		
PAG1557UP	YCL057w	PRD1	1	=NCPR1:YHR042w: NADP-cytochrome P450 reductase	
PAG1559RP	YBR119w	MUD1	1	U1snRNP A protein (snRNA -associated protein with 2 RNA recognition (RRM) domains, helps to fold U1 RNA and maintain it in an active configuration	two genes on RP-SRS; Syntenie
PAG1559UP	YBR120c	CBP6	1	translational activator of COB mRNA	syntenie
	YPR082c		1	Weak similarity to hypothetical E. coli protein (PIR accession number S47687)	
PAG1560RP	YDL185w	VMA1	1	VMA1 Vacuolar H(+)-ATPase catalytic subunit, 69 kD subunit	syntenie
PAG1560UP	YDL186w		1	of V1 sector, self splicing protein	syntenie
PAG1561RP	YDL185w	VMA1	1	unknown	syntenie; whole gene
PAG1561UP	YDL186w		1	vacuolar H(+)-ATPase catalytic subunit, self splicing protein	
PAG1562RP	YDR100w		1	unknown function	syntenie
PAG1562UP	YER176w		2	possible membrane protein	
				protein with sim to UPF1, a putative helicase	weak homology to the C-terminal 21 aa
PAG1563RP	YGL120c			protein with strong sim to PRP22; related to putative mRNA processing	

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Accession	Gene Name	Protein Name	Function	Notes
PAG1568up	YOR362c	PRE10	Initiation of protein synthesis, has an RNA recognition domain	1 syntenic
PAG1569RP	YDR238c	SEC26	Proteasome subunit YC1 coatomer complex beta chain (beta-COP) of secretory pathway	1 syntenic
PAG1569UP	YDR236c		vesicles, required for transport from ER to Golgi	1 syntenic
PAG1570RP	YKL054c		unknown	1 syntenic
PAG1570UP	YOL048c		unknown function, glutamic acid rich	1
PAG1571RP	YLR077w		unknown function	1
			unknown, has regulator of chromosome condensation signature	
PAG1571UP	YLR075w	GRC5	(RCC1) ribosomal protein of the 60S subunit (rat L10), len 221	1 syntenic syntenic; YLR076c: unknown, len 140 overlapping ORF's anyway
PAG1572RP	MITO-DNA			
PAG1572UP	MITO-DNA			
PAG1573RP	YJR066w	TOR1	Phosphatidylinositol kinase (PI kinase) homolog involved in cell growth and sensitivity to the immunosuppressant rapamycin, kinase domain is essential for G1 cell cycle functions; depletion causes starvation response but not through RAS/cAMP pathway	1 hit no 1 (YKL203c: TOR2) neglected due to syntenic
PAG1573UP	YJR065c	ACT4	actin related protein, essential, len 449	1 syntenic

Accession	Gene	Protein	Description	Score	Expectation	Identical	Similar	Length	Score	Expectation	Identical	Similar	Length
PAG1574RP	YML070w	(=ACT3)	unknown function, has sim to dihydroxyacetone kinase	1	1	100	100	100	1	1	100	100	100
PAG1574UP	YML069w	YML069w	has sim to HMG1 proteins	1	1	100	100	100	1	1	100	100	100
PAG1575RP	YOR009w	YOR009w	weak sim based on Ser-residues	2	2	100	100	100	2	2	100	100	100
PAG1575UP	YNR044w	YNR044w	weak sim based on Ser-residues	2	2	100	100	100	2	2	100	100	100
PAG1576RP	YML125c	YML125c	protein with sim to NADH-cytochrome b5 reductase	1	1	100	100	100	1	1	100	100	100
PAG1576UP	YML124c	TUB3	TUB1:YML085c: tubulin alpha-1 chain, required for mitosis and karyogamyTUB3:YML124c: tubulin alpha-3 chain, non-essential, null mutant has poor spore viability; TUB1 and TUB3 each have an intron in CODON 9	1	1	100	100	100	1	1	100	100	100
PAG1577RP	YJR117w	YJR117w	protein with weak sim to tetracycline resistance proteins	1	1	100	100	100	1	1	100	100	100
PAG1577UP	YJR106w	YJR106w	unknown function, with sim to a C.elegans protein	1	1	100	100	100	1	1	100	100	100
PAG1578RP	YDL220c	CDC13	protein proposed to regulate generation of single-stranded tails at telomers; required for passage through G2/M; required in meiosis after DNA replication but before chromosome synapsis or recombination mutants are arrested At the RAD9 checkpoint;	1	1	100	100	100	1	1	100	100	100
PAG1578UP	YNL192w	CHS1	Chitin synthase I, has a repair function during	1	1	100	100	100	1	1	100	100	100

cell separation; major form of chitin synthase
representing 90% of activity, null mutants
resistant to calcofluor, and with lower mating
and sporulation efficiency

PAG1579RP	YMR160W	1	unknown function	
PAG1579UP	YMR205C	1	see 1566UP	
PAG1580RP	YLR368W	1	unknown function	syntenic
PAG1580UP	YLR370C	1	unknown function	syntenic, two genes with UP-SRS
	YLR369W	1	protein with strong sim to HSP	syntenic
PAG1581RP	MITO-DNA			
PAG1581UP	MITO-DNA			
PAG1582RP	YLL023C	1	unknown function	syntenic; two genes on RP- SRS
	YLL024C	1	HSP70 family, cytoplasmic	syntenic
PAG1582UP	YLR314C	1	Septin:Component of 10 nm filaments of mother-bud neck	N-Term up to codon 240 on the plasmid
PAG1583RP	YCL039W		unknown, probably a member of the beta- transducin (WD-40)	
		1	repeat family	syntenic
PAG1583UP	YCL040W	1	Glucokinase, specific for aldohexoses, sim to YDR516p	syntenic
PAG1584RP	YKL062W		Zinc-finger transcriptional activator for genes regulated through Snf1p	
	MSN4			

Accession	Gene	Protein	Function	Notes
PAG1590UP	MITO-DNA			
PAG1591RP	Leu-tRNA			
	YKR036c		WD-40 repeat protein	1
				syntenie, not overlapping with tRNA
PAG1591UP	YKR038c		sim to Qri7p and Pasteurella haemolytica glycoproteinase	1
PAG1592RP	YNL244c	SUI1	translation initiation factor, 16kD subunit	1
PAG1592UP	YJR107w		protein with sim to acylglycerol lipase	1
PAG1593RP	YLR422w		protein of unknown function	1
				one gene on plasmid.
PAG1593UP	YLR422w		protein of unknown function	1
				Codons 1107-1327
				one gene on plasmid.
				Codons 1-109; incl. promoter
PAG1594RP	YDR170c	SEC7	component to non-clathrin vesicle coat required for traffic within the Golgi	1
				just one gene on the plasmid; RP-SRS down to codon 1703
PAG1594UP	YDR170c	SEC7		1
				up to codon 318; so N-term as well as C-term are missing
PAG1595RP	YOR172w			identical to 1155, 1470, 1527, 1535, 1546, 1595
PAG1595UP	YNR043w	ERG19		identical to 1155, 1470, 1527, 1535, 1546

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Accession	Gene	Protein	Notes	Count
PAG1602UP	YBR162c	protein with sim to AGA1		1
PAG1603RP	YJL190c	ribosomal protein		1
	RPS24A			1
	CRY2	ribosomal protein		1
PAG1603UP	YJL069c	unknown function		1
PAG1604RP	YGL123w	ribosomal protein, E.coli S5, rat S2		1
PAG1604UP	YDR172w	=SUP2; omnipotent suppressor with sim to EF1-alpha, protein responsible for the (psi+) phenotype probably through a prion mechanism, required for G1/S-transition; has EF-TU homology domain, C-terminal 2/3 homologous to EF-1alpha, N-terminal domain has tandem oligopeptide repeats and has structural sim to mammalian prion protein		1
PAG1605RP	YDR170c	SEC7	data on length vary, but it should be larger than 1800aa	1
			this clone contains the N-terminus down to codon 432 syntenic with upstream genes	1
PAG1605UP	YDR172w	SUP2	=SUP35;	1
PAG1606RP				4
PAG1606UP	YNL254c	unknown function		1
PAG1607RP	YBR214w	protein with sim to moc1 protein of S.pombe		1
PAG1607UP				4
PAG1608RP	YNL287w	SEC21	Coatomer complex gamma chain (gamma-	

Accession	Protein Name	Gene Name	Function	Notes
PAG1608UP	YBR025c		COP of secretory pathway vesicles; primary role in retrograde transport, essential	1
PAG1609RP	YJL041w	NSP1	unknown, probable purine nucleotide-binding protein	1
PAG1609UP			TFS1: suppressor of CDC25; has affect on the phosphorylation state of	
PAG1610RP	YNL267w	PIK1	two proteins whose phosphorylation varies with the cell cycle	1
PAG1610UP			PIK1: Phosphatidylinositol 4-kinase, generates PtdIns4-P; overproduction	4
PAG1611RP	YMR061w	RNA14	causes increased sensitivity to growth arrest by alpha factor	1
PAG1611UP	YNL268w	LYP1	Lysine specific permease	1
PAG1612RP	YKL075c		component of pre-mRNA 3'-end processing factor involved in poly(A)-site choice	1
PAG1612UP	YJL004c		protein with sim to HEX2, histidine-rich protein	1
PAG1613UP	YJR019c		protein of unknown function, probable membrane protein	
			unknown function	1
			overlapping ORF's no 2 has two stop codons in alignment region	

Gene	Accession	Protein	Notes
	YJR020W	unknown function	1 stop codons make this hypothetical ORF very questionable even in yeast
PAG1614RP	YLR368W	unknown function	1 syntenic
PAG1614UP	YLR370C	unknown function	1 syntenic, two genes covered by UP-SRS
	YLR369W	strong sim to HSP70	1 syntenic
PAG1615RP	YJL044C	GTPase-activating protein GAP for YPT6	1 same as PAG1191
PAG1615UP	YKL151C	unknown function	1 same as PAG1191
PAG1616RP	YMR079W	Phosphatidylinositol/phosphatidylcholine transfer-protein, required for transport of secretory proteins from Golgi	1
PAG1616UP			4
PAG1617RP	YPL235W	unknown function	1 syntenic
PAG1617UP	YPL239W	protein with two ankyrin repeats	1 divergent promoter, two genes covered by UP-SRS. Syntenic and one end of syntenic
	YMR185W	unknown function	1 divergent promoter; two genes covered by UP-SRS. Syntenic and one end of syntenic

PAG1618RP			4	
PAG1619RP	YOR085w	OST3	1	syntenie
				Oligosaccharyltransferase gamma subunit, member of a complex of 6 ER proteins that transfer core oligosaccharide from dolichol carrier to Asn-X-Ser/Thr motif
PAG1619UP	YOR86c		1	syntenie
				unknown function
PAG1620RP	YKL217w	JEN1	1	CHIMERIC-PLASMID
				protein with sim to E.coli osmoregulatory proP proline/betaine transporter and KgtP alpha-ketoglutarate transporter, member of the major facilitator superfamily
PAG1620UP	MITO-DNA			CHIMERIC-PLASMID
PAG1622RP	MITO-DNA			
PAG1622UP	MITO-DNA			
PAG1623RP	YDR150w	NUM1	1	syntenie
				YDR151c:CTH1:1en 325: protein of the inducible CCH zinc-finger family
PAG1623UP	YDR152w		1	syntenie,
				unknown function
PAG1624RP	YIL093c		1	
				unknown function
PAG1624UP	YNL023c			protein with sim to human DNA binding protein tenascin and
PAG1625RP	YLR180w	SAM1	1	Drosophila shuttle craft protein
				S-adenosylmethionine synthetase 1;repressors: high degree of identity to

[illegible]

PAG1628RP	YKR092c	SRP40	suppressor of mutant AC40 subunit of RNA- POL I and III,		
			overproduction is lethal	2	
PAG1629RP	YNL257c	SIP3	interacts with SNF1, contains PH-domain	1	
PAG1629UP	YGR255c		protein with sim to E.coli ubiH protein	1	
PAG1630RP	YLR424w		protein with sim to retrovirus-related proteases	2	
PAG1630UP				4	
PAG1631RP	MITO-DNA		align		
PAG1631UP	MITO-DNA		align		
PAG1632RP	YNL068c	FKH2	Homolog of Drosophila forkhead protein	1	
PAG1632UP				4	
PAG1633RP	MITO-DNA				
PAG1633UP	MITO-DNA				
PAG1634RP	YBL085w	BOI1	BEM1p-binding protein, has a SH3 domain and a PH domain; involved in bud formation redundant with BOI2p	1	
PAG1634UP				4	
PAG1635RP	YDL052c	SLC1	Fatty acyltransferase	1	two genes covered by RP- SRS,same as PAG1664
	YLR377c	FBP1	Fructose-1,6-bisphosphatase	1	two genes covered by RP- SRS,same as PAG1664
PAG1635UP	YDL054c		putative transmembrane protein	1	same as PAG1664
PAG1636RP	YLL055w		protein with sim to DAL5 and members of the allantoate permease		

Accession	Gene	Protein	Function	Notes
PAG1636UP	YKL215c	family of the major facilitator superfamily (MFS) protein with sim to Pseudomonas hyuA-hyuB	1	
PAG1637RP	YER157w	unknown function	2	syntenic, same as PAG1060
PAG1637UP	YER155c	bud-emergence protein	1	codons 403 to 218 including N-term+promoter(?)syntenic YER156c:unknown function, same as PAG1060
PAG1638RP	YCL037c	with sim to SLF1, has a motif in common with conserved sequence in LHP1 but does not contain a RNA recognition motif	1	syntenic. YCL038c:unknown function, len 528aa37c:is SRO9
PAG1638UP	YCL039w	probably a member of the WD-40 family	1	syntenic
PAG1639RP	YKL046c	unknown function, has 2 predicted TMDs	1	
PAG1639UP	YMR020w	sim to corticosteroid-binding protein	1	
PAG1640RP			4	
PAG1640UP	YLR196w	member of WD-40 repeat family	1	
PAG1642RP	YKR023w	unknown function	1	syntenic
PAG1642UP	YKR024c	unknown function, probable purine nucleotide-binding protein	1	syntenic
PAG1643RP	YMR179w	protein that amplifies the magnitude of transcriptional regulation at various loci	1	syntenic; YMR180c:len

PAG1649RP	YHR206W	SKN7	1	Transcription factor with homology to response regulator proteins of bacterial two-component systems and DNA-binding region of Hsf1p, may be involved in the response to oxidative stress. May act in parallel to PKC1-MAP kinase pathway to regulate growth at the cell surface, but is not in the same pathway as PKC1, null mutant w/O phenotype, high level of overexpression is lethal: Has a potential coiled-coil domain	
PAG1649UP	YER183c		1	unknown function	syntenic; two genes covered by UP-SRS
	YER182c		1	unknown, but essential	syntenic, two genes covered by UP-SRS
PAG1650RP	YOR317W	FAA1	1	:long-chain fatty acid CoA ligase (fatty acid activator 1), can incorporate exogenous myristate into myristoyl-CoA and other fatty acids to the CoA derivatives	
PAG1650UP	YMR100W		1	unknown function	
PAG1651RP	YNL121c	TOM70		MT specialized import receptor of the outer membrane, has tetrapeptide repeats	1 syntenic
PAG1651UP	YNL123W		1	unknown function	1 syntenic, two genes covered by UP-SRS

5							1	syntenic; two genes covered by UP-SRS
10							1	syntenic
15							1	syntenic
20							1	see ATP8, ORC8; Highly similar to aminopeptidase yscII (<i>S. cerevisiae</i>), AMPE_MOUSE, and several other zinc metalloproteases
25							1	Weak similarity to spore outgrowth factor B (sporulation protein OUTB, <i>B. subtilis</i>)
30							1	unknown function
35							1	very end of the gene
40							1	very start of gene, w/o promoter
45							1	syntenic
50							1	syntenic; two genes covered by UP-SRS
55							1	syntenic; two genes covered by UP-SRS
							1	syntenic; two genes covered by UP-SRS
							1	from codon 1761 to the C-terminus

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						45
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						55
PAG1657UP	YKR051W			unknown protein	1	
PAG1659RP	YBR038W	CHS2		Chitin Synthase II, responsible for primary septum disk; Mutants resistant to calcofluor white, 8 TMD, mutant is unable to grow on non-fermentable c-sources Membrane	1	syntenie
PAG1659UP	YBR037C	SCO1		location is altered in an rho0 strain	1	syntenie
PAG1660RP	YBL004W			unknown function; has 12 TMD	1	codons 800-1033
PAG1660UP	YBL004W				1	codons 2167-1951; C-terminus missing
PAG1664RP	YDL052C	SLC1			1	syntenie, same as PAG1635
PAG1664UP	YDL054C			unknown function, putative transmembrane protein	1	syntenie; same as PAG1635
PAG1666RP	MITO-DNA					
PAG1666UP	MITO-DNA					
PAG1667RP	YMR061W	RNA14		component of pre-mRNA 3' end processing factor involved in poly(A) site choice, interacts with Rna15p, Fip1p, and Pap1p	1	same as PAG1611
PAG1667UP	YKL075C			unknown protein	1	same as PAG1611
PAG1669RP	YLR277C	BRR5		protein required for processing of mRNA 3' end	1	syntenie
PAG1669UP	YLR281C			unknown, however there are other overlapping ORF's	1	syntenie; YLR278c:protein with sim to transcription

						5	factors, has Zn(2)- Cys(6) fungal- type binuclear cluster domain in the N- terminal region, len 1341aa syntenic; two genes covered by RP-SRS, same as PAG1603
PAG1670RP	YJL191w	CRY2	ribosomal protein rp59 (E.coli S11, rat and human S14)	1		10	syntenic, same as PAG1603
	YJL190c	RPS24A	RPS24A:ribosomal protein RPS24 (E.coli S8, mammalian S24)	1		15	same as PAG1603
PAG1670UP	YJL069c		unknown protein	1		20	codons 442 to 655 promoter and terminator missing; regulatable promoter?
PAG1671RP	YBR112c	SSN6	has 10 TPR repeats (TPR-Tetratricopeptide)	2		25	
PAG1671UP	YML042w	CAT2	Carnitine-o-acetyltransferase, peroxisomal and mitochondrial, not required for growth on fatty acids, Catalytic activity: undetected in cells grown on glucose, increased on glycerol or acetate, very high on oleate	1		30	
PAG1672RP				4		35	sp P24197 YGID_ECOLI HYPOTHETICAL 28.3 KD PROTEIN IN T...-3 73 1.2e-10 5
PAG1672UP	YDL203c		unknown, has weak sim to SKT5	1		40	
PAG1673RP	YDL104c	QRI7	sim to E.coli orfX gene; may be in a cold spot for recombination	1		45	syntenic
	YDL105w	QRI2	unknown	1		50	syntenic; two genes

PAG1673UP	YMR166c	sim to members of the MCF MT carrier protein family	1	covered by RP-SRS not in syntenie to RP-SRS
PAG1674RP	YPL072w	unknown function	1	syntenie
PAG1674UP	YPL075w	required for expression of glycolytic genes. binds to DNA with high affinity but low specificity , motif CTTCC, contains a leucine zipper that is necessary and sufficient for homodimerization	1	syntenie; YPL074w:YTA6:CDC48-ATPase- family
PAG1675RP	YMR259C	unknown, has sim to YGR273p	1	
PAG1675UP	YML100w	alternate third subunit of the trehalose-6-phosphate synthase complex, probably regulatory	1	
PAG1676RP	YLR429w	unknown, with WD-40 repeats	1	syntenie
PAG1676UP	YLR426w	rotein with sim to FOX2p, E.coli 3-oxoacyl-reductase and insect-type		
		alcohol dehydrogenase/ribitol dehydrogenase	1	syntenie, YLR427w:len
		family		670aa, unknown function
PAG1677RP	YNL116w	unknown function	1	
PAG1677UP	YNR044w	sim relies on Ser-residues	2	
PAG1678RP	YLR347c	karyopherin-beta, acts to target proteins with nuclear localization signals (NLS) to the nuclear pore complex	1	syntenie; YLR345w : len 509: sim to rat fructose-2,6-bisphosphatase; YLR346c :len 101: unknown

Accession	Gene	Protein	Family	Overlap	Notes
PAG1690RP	YDL033c		family		overlapping genes
PAG1690UP	YDL035c		sim to H. Influenza protein HI0174	1	syntenie
			unknown function; putative transmembrane protein	1	syntenie; YDL034w: unknown, len 114; overlapping with YDL035c
PAG1691RP	YHR023w	MYO1	Myosin heavy chain (myosin II), involved in septation and cell wall organization; null mutant has abnormal nuclear migration and cytokinesis, has delocalized chitin deposition, are defective in cell division, are osmosensitive,, and have an altered budding pattern, mutants show wild-type movement of actin cortical patches. Molecule is a dimer with two heads and a long coiled coil tail	1	N-Term down to codon 198
PAG1691UP				4	
PAG1692RP	MITO-DNA				
PAG1692UP	MITO-DNA				
PAG1694RP	YBR280c		sim to SRM1/PRP20	1	syntenie
PAG1694UP	YBR281c		unknown, with WD40 repeats	1	syntenie
PAG1695RP	YPR194C		unknown function	1	
PAG1695UP	YFL010c		unknown function	1	
PAG1696RP	YCL036w		unknown function	1	syntenie. Hit no1: YDR514C:unknown has sim to YCL036w

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PAG1696UP	YCL035c	MRP4	sim to thioltransferase	1	syntenic
PAG1698RP	YHL002w		has one SH3-domain; Similar to several proteins with SH3 domains	1	syntenic
PAG1698UP	YHL004w	MRP4	MT ribosomal protein of the small subunit	1	YHL003c:LAG1:Longevity assurance protein, has sim to YKL008p and mammalian UOG-1 protein; has 7 TMD
PAG1699RP	YNL126w		unknown function , has weak sim to YJL207p	1	same as PAG1514
PAG1699UP	YHR121w		unknown protein	1	same as PAG1514
PAG1700RP			AG-TEF	1	481 out of 491 bases are identical
PAG1700UP				4	

Table 2:

Ashbya gossypii sequences with (>100 codons) ORF's that show no homology to *S. cerevisiae*

5	PAG1002RP	open frame > 450 nt in -2
	PAG1005RP	open frame > 350 nt in -1
	PAG1005UP	open frame 300 nt in -3
	PAG1006RP	open frame > 450 nt in -3
	PAG1006UP	open frame > 350 nt in -1
10	PAG1010I1	open frame 350 nt in +3 and -2
	PAG1010I2	open frames whole length in +3 and -3
	PAG1018UP	open frames whole length in +1 and -3
	PAG1019UP	open frame whole length in +1
15	PAG1022RP	open frame whole length in -1
	PAG1022UP	open frame > 350 in +1
	PAG1024UP	open frames whole length in +3 and -2
	PAG1033UP	open frame s whole length in -2
	PAG1035I1	open frame 300 nt in -3
20	PAG1035I2	open frame > 350 nt in -1
	PAG1035RP	open frames > 350 nt in -1
	PAG1036RP	open frames 350 nt in -3, 300 nt in +2
	PAG1038RP	open frame whole length in -3
25	PAG1042RP	open frame > 300 nt in -2
	PAG1042UP	open frame 300 nt in +1
	PAG1046UP	open frame 350 nt in +1
	PAG1053RP	open frame whole length in -1
	PAG1054RP	open frame whole lenght in -2, 350 nt in +1
30	PAG1054UP	open frames 350 nt in +3, +2, and -2
	PAG1055UP	open frames 350nt in +3 and -2
	PAG1057UP	open frame 400 nt in +3
	PAG1062UP	open frame 300 nt in -1, many stops in other frames
35	PAG1071CRP	open frame> 350 nt in +2 and -3, possible chimeric plasmid, hybridizes to A.g. chr. II and III
	PAG1071CUP	open frame whole length in -3, possible chimeric plasmid, hybridizes to A.g. chr. II and III
	PAG1081RP	open frame whole length in +3
	PAG1083RP	open frame whole lenght in -2, many stops in other frames
	PAG1214RP	open frame whole length in -2
40	PAG1216RP	open frame >300 nt in +2
	PAG1220RP	open frame 350 nt in +2 (S-rich)
	PAG1223UP	open frame whole length in -2, open frames > 350 nt in +2 and -3
	PAG1224UP	open frame > 300 nt in -1
45	PAG1225UP	open frames > 500 nt in +2 (S-rich) and >450 nt in -1
	PAG1226RP	open frame whole length in +2
	PAG1231RP	open frame > 350 nt in -1
	PAG1231UP	open frames > 400 nt in +1
	PAG1233RP	open frames whole length in +2 and nearly whole length in -3
50	PAG1245UP	open frames > 400 nt in -2 and > 300 nt in +1
	PAG1247RP	open frames whole length in -3,open frames > 400 in +3 and +2
	PAG1251RP	open frames > 450 nt in +1 and > 400 nt in -3
	PAG1253RP	open frame > 500 nt in +2
55	PAG1263UP	open frame > 400 nt in -1
	PAG1265RP	open frame 450 nt in -1
	PAG1266UP	open frame > 400 nt in
	PAG1267UP	open frame nearly whole length in +1

Table 2: (continued)

<i>Ashbya gossypii</i> sequences with (>100 codons) ORF's that show no homology to <i>S. cerevisiae</i>	
5	PAG1272UP open frame whole length in +3
	PAG1275RP open frame whole length in -3
	PAG1277UP open frame > 500 nt in -1
	PAG1280RP open frame whole length in -2, two separated short blocks with high homology -> funct. domain?
	PAG1286RP open frame > 400 nt in -3,
10	PAG1286UP open frames > 500 nt in +1 and -3
	PAG1293UP open frames 300 nt in +2 and > 400 nt in +1
	PAG1294RP open frame > 300 nt in +3
	PAG1299RP open frame > 350 nt in -1
	PAG1300RP open frames > 350 nt in +1 and -2
15	PAG1303RP open frame > 350 nt in +2 or ending frame > 250 nt in -1
	PAG1303UP open frame whole length in -2
	PAG1305RP open frame whole length in -2
	PAG1306UP open frame whole length in +2
20	PAG1311UP open frame 500 nt in -2
	PAG1312UP open frame whole length in +1
	PAG1314RP open frame > 350 nt in -3
	PAG1318RP open frames > 300 nt in -2
	PAG1318UP open frames > 450 nt in -3 and > 600 nt in +2
25	PAG1331UP open frames > 400 nt in +2> 350 nt in +3 and > 350 nt in +3
	PAG1332RP open frame nearly whole length in +1
	PAG1334RP open frame whole length in -2 and +2
	PAG1335RP open frames whole length in -2 and 300 nt in +3
30	PAG1356RP open frame whole length in -3
	PAG1357RP open frame whole length in -2
	PAG1362UP open frames > 350 nt in +3 and > 300 nt in -3
	PAG1363UP open frame whole length in +2
	PAG1365RP open frame whole length in +3
35	PAG1366RP open frame whole length in +2
	PAG1387UP open frames > 450 nt in -3, >350 nt in +1 and +2

40

45

50

55

1001RP

	GTGATTTCGTC	CGAGATTGAA	AAGTCCCTAA	CAATCAAAAA	CAACGGGAAG	GCGTACGAGG	60
	AATGGCTGGA	CCTGGGTAAT	GGGTGCCTAT	GTTGCAGTCT	GAAGGACGTA	GGGGTGAAGG	120
5	CCATCGAGGC	GATGGTTTCG	CGGTCCGCCAG	GTAAAAATCGA	CTACATCATA	CTTGAGACAA	180
	GCGGGATAGC	GGACCCAGTG	CCGATCGTGA	AGATGTTCTG	GCAGGATGAG	GGTCTCAATA	240
	GCTGCATCTA	CATTGATGGG	ATTGTGACGG	TGCTGGACGC	AGAGCATGTG	ATGACATTGC	300
	TCGACGAGGT	GGCCCTCCCG	CGCCAATTGC	GCGGCGACCA	GGTGCTGATG	GAAAACCAGA	360
	TGACCCNNGG	GNATCTTCAG	GTTGCCATGG	GGGNGCGGGG	GNGTTGATTA	AATCNACCCC	420
10	TGNAGGCTGN	NTAAAAATCT	TGGNNGGGAA	AANGGTGANT	ATAAGCGGCC	TTTTTCGGCN	480
	AATNCGGGAN	TTTNGNTANN	AAAAGTNT				

1001UP

15	TGATCCGACC	AAGAGCAGGG	CTTTGGTGCG	GTGAATCTCG	AACTCCTGCC	CCTGTGTCAG	60
	CTCACCCGGG	CCGAAGTCTT	TCCAAAGAAG	AGCTTGTAAG	AAGTGTTCCT	CGAACCACTC	120
	GAGCTCAGCC	TTGTCCGCGA	GCGGCCGGCA	GGTCAAGGTG	ACCGTGGACA	GCCGCGGATC	180
	ATGGTAAGCC	ACGTGGGCAT	CGGGAATGTC	AGAGGCACCA	AAAGCATGGA	GATTCAAGTA	240
	CCTTGTPTAT	CTCCAGATCG	CCGAACCTTG	TCCCGATAGA	TGGGCGCGAC	TGCATTAATG	300
	CTACGCACCT	TTTCCTCCAA	CCACAGCGAT	TCGTCAATCA	NGCCTCCGAG	CCNGTCGGAT	360
20	TTATCAAAAC	AACCNNGTCC	GCCATGGCNA	GTTGNAGATG	GCANGGCAC	TTNTTTCCAC	420
	AGACTGNGGG	CCGCAATGG	GGGGGCGACC	CGCGACATTA	NAATTNTGTC	AGACCNAAAC	480
	CNCAATTGN						

1002I2

25	GATCTTCGAG	TGGGCGAGGG	ATAGTAGCGA	CCGTGGCAGA	CATTCACTCT	GATCAATTGA	60
	AGCGCCTGCT	CCATGTCCCT	GATGAACCTG	GGAAATAAAT	GCCTATAGAG	TTGGTGATCA	120
	AGGGTAACGA	CTTCTCTCGA	TTGCCATATCA	AAAGACTGAA	AAGGTACGTT	CGGCAGCACA	180
	CAAAACAGCG	AGTTCGGCTG	GTGGACTGTT	CGCGTGACT	ACGCAGTACA	CATATACCTA	240
	AGATAAAGAG	GTTCAATGAAT	AAGTGCTTAG	CCACTATATT	CAATTCACTT	GGAGGAAATA	300
30	ATACTACTAG	ACGTGGATTG	TTGGTGCCAC	TGGGTTCCAA	TCGATAGCTA	CTTCAAACCT	360
	CCCGGTACAC	CTAAAAACGG	GCGCTCTTGT	CCTTCAAGGA	TAGAACGCTT	CCGGAGTACC	420
	TCCCTGTTTC	ATGCACAAAA	GCGAACTACT	CTTGGCACCA	CCGCCGGAGG	AGACAAACTT	480
	TGGGGCAATC	CTTTGAGATT	TCGACACCAN	TGNAAAAGNT	N		

1002I1

35	GATCTCCGCA	AATTCTCCCA	AAATGGTAAG	TCGTTATCCA	CCTTAAATGC	TTGCTCGGGT	60
	AGCTTGTTC	CCAATAAATA	ACGTGACCCA	TCATTGAGAT	CCAATACCTG	GGGGAGCAGT	120
	TCGCTCCAAT	CGCGTACTTT	CTTTAAAAAC	GGAAATAGTT	CATGATGGAG	AGAGTACAAG	180
40	TTTATGTCCT	CACCAAAAAC	CTCAGGAAGA	CCTATATCTC	CTTGCAATGAA	ACAAGTGTCG	240
	AACACTCGTA	GTCGTTCCAG	CATGGCAGCT	GTCACCGAGG	CATCCTTCAT	GCGACCACGC	300
	GACCTTTTGA	TAATTTCTGT	CAGCCATTGT	TGTCTCTTTT	TCTTTTCGCA	AGTACCACTG	360
	GCATTCTTTT	CCAGGGGGCA	TCTCCCGAAC	TGGGTGTGGT	AACAGAAATG	ACTGTNTGGG	420
	GNGGGGTTTG	GTGTTGGACG	ACNTTTNGTG	AAGATGGGGC	ACAGTTNTGC	CGTTTTTGAG	480
45	GNCAGGCAGA	TNTGAAACAA	ATTNNCGNNA	ANTTCGNTTT	CCCNACGCAC	GGGGCCCGAN	540
	TTCAGGCAAC	CTNGACATTN	TCGAAGTACC	N			

1002RP

	GATCTACTAA	GGAATTATGG	GAATCGTGTC	TTTTCTTCTT	AGAAATGAAT	TTGTTTGCAG	60
	TCGAAGACGA	GGTGGAAAGAC	GAGCGCGACT	GTTTACTCTT	GGGGAAGTTA	GTCAAACAAT	120
5	CGCTAGATTG	TATCCGCATG	GTATCACCTG	AGTTTCTATC	TATAGGAATG	CTACTATYAC	180
	GGAAGTTGCG	ATGCTGATGG	GCATGGTTGT	CATGAAAAAT	AGGATGTTGG	CTCCGGTTAG	240
	ATGACTGMCC	GAATACCTCT	TCTATGATTA	ATTCTWCAA	GCGGGTATTG	ATTAATGTCTG	300
	ATCCTGTGGC	GTATGATGAA	ATGACTGCCG	CGTCATTGCC	GGTACGCCCT	TGGAGTGTTC	360
	GGANTTGACA	AGAANNCGCT	CTTAGGTGCC	NGGATTCCCN	GGGTTGGAAA	GATGATNGCG	420
	AATNCCAATT	TNGGTCCAAT	AGGGAATCTG	GNATTATTTG	TTATTGCAAT	NAGGATNCCC	480
10	GGGAGGGGGT	TNCNCTACGA	AGAAGGATTA	GGTTTNNC			

1002UP

	GATCCACGKG	AGTCGCAGCG	CCAAAGGCCG	CTGGGCGTCA	CGATGCAGGT	TATGCTGTCTG	60
15	CGTCGACAGA	GTGCGCCCCG	CTGGATGAAG	CCCATAAGAC	TATTGAGCCA	CTATATAATA	120
	CCAGCTGGTT	ACMTGATACT	ATATGGTCAT	AGCATCAATT	GTAGTAGCCA	GGGCAGTGAG	180
	GCTATAGCAG	CTGGAAAGGC	GACTCTGAAA	AGGGATTTAT	GCCAAGAGCT	TCAGAAGTGG	240
	ACTCAGGCCA	CGCATCCAAC	GGATTCTTCC	TCAATTCTCT	TATATTGAGC	CAGAGCTCCA	300
	TCTTGACCGA	GGTCCCTCAT	TCATATTCAT	ACGAGTTACT	TGAACATCCA	ACAGGTGCCA	360
20	TATTTAGKTT	GGGGGGGTAA	GTACAATANC	GNFGNNGGCC	GTGGAACCCC	GGTCCGTTCC	420
	CNGGGTTTTG	GAATTTTTNG	G				

1003RP

25	GATCGCTCAT	GACCAAAACA	ACGAAATCCA	CTACATTTCTG	CTTGCCACTG	CTCACCCAGC	60
	GAAGTTTGCG	GACGCTGTGA	ACGAAGCTCT	CTCCTCTTAC	GATGACTACA	ACTTCGATGA	120
	CGTTCTTCCA	GACCGTCTAA	GACGTCTAGG	TGACCTTGAG	AAGAGAATTA	AGTACGTGGA	180
	CAACACCGAC	GTTGATGTTA	TCAAATCTAT	CATTGAGGAG	GAACGTGATTA	ACATGGGCAT	240
	TTACAATCCA	TAGATGATCT	GAACCTCTAGA	TGATTTATAG	ACTATCTAGT	TAGCCTTCTA	300
	GTCCTATATA	CCTAATTCCA	ATAGGCAGGG	GGGCCTATGT	CAAGTTTAAA	TCCATTTTGC	360
30	CTTCTACTGC	CGCAACGTGG	TTTTTTTGCAA	AGCCAATTTT	GCCGTCGGGG	CCAACCTTCAC	420
	CTCANTACCC	AGNTCTGNGA	GTCATCANCA	TTCCCCGCTN	TAGGCCCCAG	TGANTAGAAG	480
	TGGTCTAGGT	CGTTTCAAGA	GGAACATNAA	TNT			

1003UP

35	GATCTTTAGA	CAATTATGAC	ATCCAAGTTT	GGTCCGTTCA	GACTGGTCAG	TTGCTTGACA	60
	CACCTCTCTGG	TCACGAAGGC	CCAGTCTCTT	GCTTGTCCTT	CAGCCGGGAA	AATAGCATA	120
	TAGCCTCTGC	CTCTTGAGGAC	AAAACTATAA	GAGTGTGGCC	GATATTTGGG	CGGCCCCAGC	180
	AAGTCGAGCC	TATAGAAGCA	TACTCTGATG	TGCTGGATAT	TTCCATGAGA	CCTGATGGTA	240
40	AGCAGGTGCG	TGTCTCCACG	CTGAATGGTC	AGCTGTGATT	CTTCGACGTT	TGAAACCTCA	300
	CGGCAGGTTG	GCAACAATTG	CTTGCAAGAG	GGACATCATA	TCAGGACGCC	ATTTAGAGGA	360
	CCGGTTTACT	CAAAGAACTT	CGGCAACGGC	CCAAATATTC	ACAACAATCC	ACTACAGTTC	420
	GGCGGCTTTC	AATGNTGGAG	NTGGGANAAA	ATCTNPTGGT	NTAGAATCCN	ATAAGGGTAT	480
	AANCGTCATG	TTCCANAAAT	NATC				

1004RP

	GATCTTAAAG	AGGCTCAGTA	TGCAGAGGCA	GTTTCCAGAA	GAAGACAGGC	TGGGCTTCGA	60
	AATCCCTCAG	CTCCCGCCGT	GGAAGAGTCC	GCAGATGAAG	CAACACACAC	AACAGGGCCA	120
5	GCAAACGCCG	CTGCGGCGGC	CGCGCTGCAT	CCTCGGTGCC	CCTTATGAAC	CGAGCAGGGC	180
	GTCGTCCACT	GGTGCAAGCC	AAAAGCGCGA	CTACGACTAC	TCCGTGTTCA	ATGAGAGCAG	240
	GCTCCTCACT	GAGAGCAAGA	TAGACCAGTA	CTTGAAGAGC	GAGGCCGCAA	CGCACAAACG	300
	CGTATTCCAC	CCGCGACCCG	CCCCACGACG	ACAGCTACCC	GCCCCGACTT	TGCAGCCCGC	360
	TCTGCTTGCG	ACAAGCTTTCG	GACGANGAGG	GAGAGCCCCN	CCCCCCTCNC	AGAGNGCGCN	420
10	TTNGNGACCC	CCCNCTGGNTG	TTCATCATCC	CCCCANTCCT	CCAGGAGAGT	TTTNGAAAGG	480
	GCGCCCCCNA	NACNCCNTAG	GATTTCGTGA	GGATGGAGTN	GGGCCCTTTT		

1004UP

15	GATCACCGAG	CCTAATGAGT	GGTGCTAGGG	TAGCGGTTAT	TACCGGTACT	AATAGGTATG	60
	TTAATATGCC	ATCAGTGTCT	GAGCTCACGA	CTGACATATA	TTAGCAATCT	TGGCCTGAAT	120
	ATCGCATACA	GGTTGATTGA	GCAGTTTACT	GATGACAGCA	AGTTGGTTAT	CGTGGTAACA	180
	TCGCGTACGC	TGCCAAGAGT	AAGGGAGGTG	GTAGACCTAA	TCAAAACATA	CGCCGAGAAA	240
	TGTGGYAAGT	CTGGAGCAGT	AGATTTCGAG	TACCTGCTGG	TGGATTTCAC	CGACATGGTT	300
	AGTGTGCTGG	GCGCGGCATA	CGAATTAGAA	AAACGATATG	ACGCTATACA	TTACTTCTAC	360
20	GCTAACCGTG	GCAGGGTGTG	TATTCCCCGA	ATTGATTGGT	TGGGTGCACC	NGGTGTTTAC	420
	GGGATCCNCG	GGTGTGTGAT	ATCCNCGTTA	GNCNGGGTGG	ANNAATCAGG	ATGGTNGGTT	480
	AGTTTCAAGC	ANTC					

1005RP

25	GATCTCCCCC	AGGAACCGCG	ACGGGTACGC	AGTCGTCGTT	CTTCCCAGCG	TGGTCGTCAC	60
	GAATTCCATC	AGCATGTGGA	ACTTCAGCGC	GAACATCTCC	TCACGCAGGA	TCCGCGTCTT	120
	CCTCCTCCTC	TGCGGCCACC	GAGAGCTCCG	CCAGCTGCTG	GCACCCGGTC	AGGAAGCACT	180
	CCCGCGCGTT	CCCCTCgcgC	cccacCTCCC	TGAAGCAGCC	CACCAGGAGC	CGCCACACCA	240
	TATCATCCCC	GAGCCCTTCG	TTGAGGTTGA	AGTTGTCTGC	CCTAATGCAC	CGCACAAGCA	300
30	CCTTCGGGAT	ATCCCAACCC	AAATCTCCCA	CGAGTGCagG	GTGCTCCCCG	AGCTGCTCCC	360
	AcAGCGCCTC	CAGGAAGCTC	GCCAgCCGCC	CCGCGTTACC	GcTCGCAAGC	GCCTGCTcCG	420
	CGCACAACTC	GATCCCCGCT	GCGAgCGAgA	TcTCGTcCCC	GCCTGcTCCG	CGAATAGCaC	480
	GCCCCaGACTC	TCaCCTTCCG	TATTGCGTGG	cGTTTCATAg	AATcAcTCT		

1005UP

35	GATCTTGCAg	TTAACGGTTC	TTCCATCAAG	GGACAAATGG	GCGTACCGAA	GCTCTTAGCC	60
	CAGCCAAGTA	TCCCACAGCT	GCACAATGCT	AAGGGTGAGG	TAATTGATGT	TCAGTCCCAG	120
	CCCCCCGCGG	GCTGGCGGCA	GGTGCTACTA	NAGCATGGCC	CAGAAGTATT	TGCGAAGAAG	180
40	GTGCGTgAAT	TCGATGGAAC	ATTGCTTACA	GACACTACAT	GGAGAGATGC	CCATCAATCA	240
	TTGTTGGCAA	CTAGGGTGCG	TACTTATGAC	CTAGCTGCTA	TTGCACCTAC	CACTGCACAT	300
	GCaTTAGCAG	GAGCCTTTGC	aTTAGAgTGT	TGGGGTGGCG	CTACGTTTGA	CGTTGCCATG	360
	CGGTTTTTGC	ACgAAGACcC	aTGGGAgCGC	TTGAgGACAC	TGCGGAAATT	GGTGCCAAAC	420
	ATCCCATTC	AGATGTTGCT	TCgTGGTGCC	aACgGTGTTG	CTTACTCCTC	TCTGCCTGAT	480
45	AATGCGAATG	ACATTCTCa	AACAAGCAAA	GGAgAATGGT	GTC		

1006RP

	NNNNNNNNNN	NNNNNTGTGGG	GCGTGGTAGA	NTAGTGGGTC	TCGTAGACAa	TGGATGCCTG	60
	TAAGCATgTG	TAACGGGTAT	CGTGGAGGGG	TCCCTTCCCCG	CCTCCGAAGC	CTTCTTCGGT	120
5	TTCTCAATTT	CCCATAGcAA	TGGCGACTCG	CACCAGTAAA	TCCTCCTCTG	GGTAGGCTCC	180
	GCTCATTAGT	CGAACGGTTC	TCCGTAGCCC	ATCCTCGTCC	AGTTGCGGCG	CCGCGAAAAC	240
	AAACAAACAC	TGGCCGCCCCG	GATAACGTCA	GTAGcTATGT	TTCAGcAGAT	TCCGCGGAAA	300
	CCGTCCAACA	GATCGTCTGT	AACCGGTGcA	GATACGTCTG	GGcAGcGGGT	TTTAACTGCA	360
	GCCAGTGcAG	ATTTAACGTG	CGATGGAAGC	CTGCGCGCGG	TTCTGGcTGC	CCGCCGGTGG	420
	CTCCAGCGGA	GCGAGCGCGC	GCGTCGCGAT	GCGCGGcGTa	AGTCTGTgAT	CGcCGGGAGC	480
10	TGAgtAGcGC	TAGCGAAGGT	CAcACGGACG	CCGGATAGTA	GaTGGAGcAA	GGGGCCTCTT	540
	TGGACGGTTT	GGTTACGAAA	TNCCGGG				

1006UP

15	GATCTCTGTT	CTTTTTTTTAC	CTCTGAAGGT	GCCGAATGTG	TGCGCGTGAA	ACCACTCTTT	60
	CGCGATGGGA	TGTTTTCTGA	TCTCCCTCGC	GAGCTGTTTC	ATGTATTACT	TCCTTGTAAAG	120
	GCAATCGCCA	CGCAGGACAG	ACCGAGCTGG	TGCCAACGGT	TTCTCCGGCG	TGCCTTTGCT	180
	GAGATGCGTT	CGCATGTTTT	GACCCAGCT	CTGGAATATG	CGCGCGGTGC	GATGCTGCGT	240
	GTGGTACGAT	GCAACGTCAG	CGATCCCGCA	GGGCGGgGGT	GCAGgGGTGT	ACTTCGATCG	300
20	TAGGCCGCTG	TAAATGCTCC	TCTGGGACGC	CGCTCCCGCC	GATCTTACTG	TCCGCGATGA	360
	ACGATGGGAC	AgAgTAGcCG	GGATGGTTCC	CTTTGcAGAT	AGGAAATCTG	GAAGAATTTG	420
	GTCCCgCtCC	gCCTGATTG	TtTATACAAA	AAATTGGCCA	TACATTCTTT	G	

1007RP

25	GATCTTCTCG	CCGAAGTACT	GCACCATGTC	ATTTCTCTCC	GGTTCACCAT	GAACAAGGAC	60
	ATCTAGGCCG	ACCTCCTCCT	GGAAGCGGAT	GACTTCCTCA	ATCTGAGAAT	TGATGAAGTT	120
	GGTGTACTCC	TCCGTGGAAG	TGCCCCCTT	TGCATGCTTG	TTTCTGTGTA	TCCGAATGTC	180
	CTTAGTCTGT	GGGAAGGAAC	CGATGGTGGT	GGTTGGGAAT	AGCGGGAGCT	TGAAAATTGG	240
30	CTGCTGCTCC	TTGAGACGCT	CCCCGAATGG	TGCGGCTCTC	GTGGATAGCT	TCTCGTTCAA	300
	ACCAGCAACA	CGTTCTCTGA	CAGAAGGATC	GTTGGGTGAT	CGCAGAGGCG	GGACGCGCAG	360
	CAATCGAGTC	TGCATTTGGC	TCCAACCTAG	AGGAAAAGTC	TTCGCCAGAG	CGTCTTAGC	420
	GAGGAAACAA	ACTCATGCAG	TTCTTGGTTG	AAAAGAGAAC	CAGCCTGGCT	TNTTGTCCAA	480
	GGAGATCGTT	TCCAAGTAAC	TGGNNTTGAA	NAAGGAGC			

1007UP

35	GATCTTGTCG	AGCTCGCCAT	GACAGATGAG	AATCCGACAG	CACGTTTCAC	GGCATTTTAT	60
	GCGCTGGGGC	TAATTAGTAA	AACGGAGGAA	GGCTGTGAAC	TATTGGACGA	GTGGGGCTGG	120
	GACTGTTGCA	TCGATGTTTCG	TCGCCAGCCA	GTTGGTATTT	GGGTACCAAA	TAACATCACC	180
40	ACCTTTCTCA	GTTATCTCTA	AGAGAGCGTC	GAGAAAACAA	CCGTTTCGGA	AGGTATCGAC	240
	CAATTTGGAC	CACGGAATTT	CGGGAGGAGG	GACTTCCCCC	CACTGGAGGG	TATCACAAAT	300
	ACAAGTTGAT	ACAATACTCT	GAAAAGGTAG	GAAAAGGATG	TCCTGACAGA	CAACCAAGAG	360
	CTTAAATCCA	TCCTCGCACA	CAGGGGTAGA	CAAGTGANTG	NAAGCGNGA	TTGATCTTCC	420
	CATGGAGNTC	CAGGATGACC	AGCTCCCCAA	GATTTCCGTT	CGTGGGAANC	GGAATCATTT	480
45	NTACACAGNG	GA					

1008I2

	TCGAGACCGC	ATCAAAATATC	TGTCATTATG	TAAATGTGCA	TATTATAGAC	TTCTATTTC	60
	AGTACCAGGC	AATTGTGTCC	GATAAATGAG	GTGCAATGAG	CACCCGTCA	CACCGGACGC	120
5	GATAAATTTT	TTTTTGGGGG	TCAACCATT	AATCTACGTG	CATCTAACGC	AAGGAGCAAT	180
	TTAGCTAACA	ACTCTTCTTA	TCTTAAGAAT	CGGGTATACC	TCCTCTTCGC	ACATCTTCGC	240
	CTTCTTTAGT	CTCGAGTCTT	AACTACGTTT	AACAATGTCA	GCCTCCGATA	AGATGTACAT	300
	GTCGTATAAC	AACATACACA	AACTGTGTCA	GCAGGTAGCT	GGCCAAATTA	TGGAGCGTGG	360
	TGACAGACCG	GACGTGATTA	TCCGCATTAC	CGGCGGCGGC	ATGATTCCCTG	CAAGAATCAT	420
	CCGGTCGTTC	CTCAAGGTCA	AGGGCCAGAA	AAACATCCCC	ATCCAGGCGA	TTGGGTCTTT	480
10	CTTTGGTACG	AGGACTTGGG	TTTGGAAGAC	GGGACGGAAA	GCATCGGCAA	GGAAGTTATC	540
	CGGATCAAGT	GGCTAGACTT	TGGGGGCCCTT	GGGCAAACAC	TTTGGACTCA	ACTGATTGGA	600
	AGAAGGTGTT	GGATTGGCGC	CGAGTTGGNC	GANACCCNGA	CACGTCCCTA	CGGTTGTNAC	660
	CGANTTGGGG	AGGGGGNCA					

1008I1

	TCGAGTCATT	TCTTGTAAGT	CAGTGCATCG	ACAAAGTCGT	CTGCTTCGCC	GTTGGCATAC	60
	GTTATTTTCG	TTCCATATCT	GGCATCATCA	GCGTCCTCAA	GCGCGACCTG	AGACAACTCC	120
	TGGCGCAACT	TTGTCTGGGC	GCGAAGCATC	TCCAGGGGAC	CCCTGCATTG	ATAACAGGAT	180
20	CGGGAGCGAG	TCCGAACTGG	CCTTGAGGTT	CGCGCGAAGA	GCCTTGATTT	CCTTGTTACC	240
	CCGCGGCTGC	AAGGAATCTA	GGTGAGGAGC	ACGCAGTCGA	AGCAACCACT	TAAACCACCA	300
	CCGATTTCGT	GAGCTTTCTG	TCCAAACGTC	AGAGGCCACC	CGCTGGCTCA	CGATGACAAA	360
	ACAGTTCATT	GNANCGCNAT	GGAAGGNGAT	NCATGTTCGN	NANATTCTTT	NNTTCTTTCC	420
	TCCGACCANG	NGTNANAAC	NACAGTCCCT	GACGANTTCC	TCACCTANGT	CNCCGCAGGG	480
	GATNNTTTCA	ACGCCGCNCC	GTCTNNCCCC	CTCNCCTTCG	NNNACCTTCT	TTGTTNNNGG	540
25	TTTTCTTTTN	CCNNCNCNCC	TNNNTNCNAC	TTNGGTTTTT	NNACNCCNTC	NNNAC	

1008RP

	GATCTGTCTT	GGACGATATC	AACGTCTATG	CCATCTTTCCA	AACCGTCTTT	TCCACATTGC	60
30	AACAAAATGA	CTCTACAAA	TACCAGTTAG	TCCTAGAAAA	TATGTCACAG	GACGAACAGA	120
	TGCACCTAGC	ACATATTACA	TCGTTATGAG	CACCATAAAT	CTCATAGTCT	TCCTACTTTA	180
	TCTTTAATAT	TAATAGTATG	TGTATGCCAA	TCGGCGCGTT	ATGCCCGGGT	AACAGTAGTT	240
	TCTTTTCTTN	GAACATCTGA	AAAATTTTAC	CCGATGAGCT	CTCTTGTTGC	AATGGCGCAT	300
	CGAGCTACAA	GTGCAGGTGT	ACCATTCACA	TCCCTATCGG	NATTCGGCTG	TTGNTAGAGC	360
	TGTTAAAATG	ATTGCTTCAG	AAGATACGAG	GTCCTTGGGA	GTTTTCGGCC	CGATGAACGN	420
35	GGTCGCATT	CAAGCCAATG	CGTGAAAGG	ACTCATTGAA	TTTTCANNGA	CCNGNAGAAT	480
	TAANGGNAAA	GTCANCNCTA	ACCNATTGT				

1008UP

	GATCAAGCGG	GAATTTTCGGC	GCAAATGCAC	GTTAATGCTC	ATATTGTTAA	CAAGCTCGGG	60
	GCAGAAAGTC	GCCGTTTGGG	GCTAGAAATT	TCCACATTGA	AAGCGTTCAA	TAACACATTA	120
	GAGGAAGAGA	AAGCTCGTGC	AGAAGATGAT	ATTTTGAAGC	TGCTAGAGGA	AAATCACACT	180
	GTGCATCATT	TGAAGACTAC	CAACGAAGCG	TTGACTACCA	AGGTAGCCGA	CTATAGCAAT	240
	AGACAAGATA	CGATTCTCCA	GCTGTGGGGC	GAAAAGACGG	AACGTGTAGA	GGAACCTTGA	300
45	AAATGACGTC	GAGGACCTCA	AGCAGATGCT	GCGGATGCAA	GCACAGCAAC	TTGGCCGACA	360
	TGCAAGAGAG	GTTAAGAAAT	TAGATTCCCA	TATCTTATTA	ACATTATINA	TNCAANCGGC	420
	TTGGGTTNGT	TAATCAACTT	CNCCAGATGC	NTAGATTTGG	GTAGTTAGNC	ANTTTTTTCA	480
	NGTGGNTCAA	ATGGNGGCC					

1009RP

	GATCTTTCGCT	TGGGGCCGCTG	CGTTCACGGT	CTTAGAAAGC	AAGCGTGCAA	GCGATGTCTT	60
	GCCTACCCCT	GGGGGGGCCC	ATAGTATCAT	CGAAGGTATT	GTTCCCTGGC	TCACATATTT	120
5	GTATAGTGCC	CCGCTTTTCT	GGGAGAGAAAT	ATGCTGTTGC	CCCACGTAAT	CCCGCAGCTC	180
	GCGGGGACGA	AGTTTCTCAC	TAAAGGGCAA	ATGTGCCATT	TTCTGCAGCT	CACGCTGATC	240
	TGAGTTCACC	GCCCCGTGTG	GACGTGCCCG	CTTCCGTGGG	GGAGAGTCGT	CCATCTCTAT	300
	CACCTCACTA	TCCTCCATAT	TAACGTCCGA	GATCACAGAC	ACGCTATCCT	CATCTCCAG	360
	CTTATGCTTG	CGCCCCAGCA	TCTCAGATAC	GGACGTGGTC	CTCGCTCCTT	TCGGCTCCTC	420
	CTGCAGGGAT	GCATCTAGAT	GGTATGGATG	TGATGAATGG	AAAGCCTGCA	ATCTGGNAAT	480
10	GGTAAGTCTC	CCCCCGTAT	CATTTN				

1009UP

15	GATCATGCTA	GTTCTGCAGC	TGAGTTTTTA	AAAACGCAGT	ACTGGAGATG	TTTCGCTTTA	60
	TGGTATCGCT	CCACTAGCGC	ACGGACTGAC	TTTGGTAAAC	GGCTTAGCAC	TGATGCCGGT	120
	ATTTGGAACG	CCCGTCTTAA	GAAGCTTGAG	TTCCGACCAT	CAATGAAGGG	AGCGCAAGTC	180
	GAAATTTCCC	AGCCTAGAGG	CATGTCAGTA	GGGTCAAATA	CGTCTTGTTT	TGGATCGCTC	240
	TGCATCATGA	TATCGACATA	GTAGTCGCAC	ATATCGATGG	AGACGACCTT	GCCGGGGTCA	300
	AATTTGTTAA	ATTGGTTCAA	TCCCTCAGGC	ACTTGGGTGA	TAACCTCAAG	TAGCGGCATT	360
	TCTTCAGGGA	AATCGCCCGG	TAGGAGGGCA	TCGAAGNCAG	AGTTNGACGA	ACCNCAGGCG	420
20	GGGGGANTCT	TTGAAGGGAG	AAAGAGGCCG	GGAAATGGTA	CCACTCCGCT	CCCCNTCANA	480
	AGTTGGCCCC	AGCCTCAATN					

1010I2

25	TCGAGGTGGC	GGGCGGGAAA	CCCCTGCGCA	ATCCTGGCCT	CCAGCGCCCG	GCTGACTGCG	60
	GGTACCGTCA	AGCACTTGAA	GTGGCTCCGC	TCAAGATAAT	CCACCGCCTC	GTTCCGCCGC	120
	AGCCCGCGAC	TCCCGTGAC	ATCCCGCGGG	ATCAGCTTGA	ACTCCCCCGC	GCTCAGCCAG	180
	AGTCGGTTGT	TGCCCCACGG	GTAGTCGTAC	TCTCTGGCA	GCGCCTCGCT	GCTCATCATC	240
	AGCAGAAAGT	CGCCCTCTGT	GTCCGCACATC	TTGATGAAAA	CCTCCGCGCC	CTGAGCCCGG	300
30	GAGAATCGCT	GCAGCACCCC	TGCCACCAGC	GCCTCCTCCT	CCTCGGGTTG	TCCGCGACTT	360
	CCACTCCGCC	AAGCACCATC	GCCTGCCCTC	CCGCGCCCCG	CACCGCCCCG	AGGTGCACCC	420
	GCTGTACCCC	TGNACGGGT	AGTGGTCATT	CCACGGCCCG	AACACTCCTC	AAGCTGAGCA	480
	TGTTCTTGGG	ATCTTTGTTT	GGACGTCAATC	AAAATTGTCT	ATTTGAAAAA	CGATACAATA	540
	NAGNGGCTCN	GGGGTNGAAA	GTACACCCNA	TCACTCTGGT	TCAAAGCATG	TCTCAATNTG	600
35	CGGGGCATAA	CCAATTGCNC	GGTANGCA				

1010I1

40	TCGAGGCGCT	TACGTGGGTC	CACCTGAAGA	TGCGGCAGAC	GGCGCACGCG	GAGCTGGTGC	60
	GGGCGAACCC	CACCGTGTTT	CCCCTGCTGC	TGGCGAACTT	TCTCAGAAAC	GATCTGTTCG	120
	TGACCGGGGC	TGCGATGGAG	GGCCAGGAAG	CGAAGTGACG	CGACGTGCAC	GTGCTAGTAC	180
	CGAAAAACACA	CGCCGCGCTG	GCGTCTCTCC	TGCTTGCACA	TAGTCCCGTG	GCGCGGGGTG	240
	GCGATCTTGG	CATCACCCCT	GGCGACATTT	TATCGTTGTC	CCTGCAGGAT	GCACTAGACG	300
	CGGGCCAGTT	AACGACAGCT	GAACCCAAAG	GAAAGTTAGA	GGGTGACCTA	GTAAGCGCTC	360
	TGGTACATAC	AAAACAGCTA	GAGCGCCCGG	TGGAGTTCTC	TACGACTGAA	TTAATACGGA	420
45	GGTACCGACT	TGCGGACAAA	GAGGCGTCTA	TGGATGCCCT	GGCTGTTCGC	TGGAGATTTT	480
	CTGACAGATT	TAAAGATGAC	GATGAGGTAG	AATGACATTT	CTTGTACAGG	TCTCAAGTGG	540
	GATGAGAGGT	CGGCATTTTC	GAAGGAGNNT	GGTTTATNAN	NANATCTTGG	ATTTTCTGAG	600
	GGGGCTNAGN	TNCAAGAAAG	TCANATN				

1010RP

	GATCCGGCTC	GCAAAGGAGA	AGATAGAAGA	GCAGAAAGAA	TACCCGGTGC	AGGAGTTTGA	60
	CAAAAAGCTG	TATCATAGCA	ACCCCGCAAG	GTA CTGGGAT	ATATTCCTATA	AAAATAACAA	120
5	AGAAAACTTC	TTCAAAGACA	GGAAAGTGGT	GCAGATTGAG	TTTCCCTCTC	TATACGAAGC	180
	TACCAAGAAA	GATGCTGGTT	CAGTGACTAT	CTTCGAGATT	GGGTGTGGTG	CGGGCAATAC	240
	CATGTTCCCG	ATCTTATCTG	CAAACGAAAA	CGAACACTTA	CGCGTTGTGG	GTGCGGACTT	300
	CTCCCCGAAG	GCCGTGGGAA	TTGGTAAAGA	CGTCGCAAAA	CTTTAACCCC	TCGAATGCCC	360
	ACGCGACGGT	ATGGGACTTT	AGCCAACCCCT	GATGGTCTTT	TGGCCGATGG	TGTCGAGCCG	420
	CATTCGGTCG	ANATCGNAGN	AATGATTTTN	GTTTTAGTGC	CTNGGNGCCC	ACAGGGGGCC	480
10	AGGNTNTGGT	TATTGGANAA	AGTCTTNANC	AGNGGGT			

1010UP

15	GATCAGGACA	GTAGCAGCTT	GACTGAGTAT	CAGCAGGAAA	AGCCTAGCTA	ATTGGCGCGA	60
	GTACAATTAC	AAGTACCTGT	CTGACTACTT	CTTTGGGTGG	GATGCCATAT	TTTTTAGGAT	120
	GGCTTGCAAC	GGGCCGGTGG	GGGCGCCATC	CAAATTTATG	GAGTTGAAGA	GCTGTTCAAT	180
	GCCCTTTATC	CCATCTGCAC	CGTCTTTATC	GCCGAACATG	GCATGCAACT	CTTCAAGCAT	240
	GATATCTTCT	TCCTCGTGCT	CTGATCCGGC	GTTGGTCTGC	GTTTGGGCAG	TCTTCGTAGG	300
	CGCCATTTCT	GTAATGTGA	AGCTGGTCTT	TGGTCATCTT	CAGACCTCC	CGTCAGGAAA	360
20	TATCAAAGAA	ATCGGCTTCA	CTAATATCTA	CGCCTCACTC	TCGAAAAATG	TCCGAGGCTC	420
	TTTCATCCCCA	GCTGAAGGAC	CCTGACCAGA	AAAATGTCAA	TGGTACTCAA	CGCAACTTTA	480
	ATNTTNCAAG	AN					

1011I2

25	GATCTCTTGC	ACCAGTCCAA	ATCAGCGGGG	TCGTCCACCT	TTCCCTCCATA	TATGATTTTG	60
	CCGATGGTGT	CGCTGACAAG	CTTCCAGGGC	ACCAAATCGG	GGTCGACATG	CTCCTTGCCG	120
	TTACTGCTCT	GTTCAAATAT	GTGGTCCAAA	AACCTTGCTAC	CTGCGTGGAA	GTCACCATCG	180
	TGGAAGTCGT	ACTTCTTGGT	GAATCCAATA	GGCGCGAGAC	GGCACCTGGC	CATGATAATA	240
	GAGTGGAACC	ACACGAGGAT	GAACCTTGCTA	TGAAGTTTTT	CTACTGGTTT	GACATTCTTC	300
30	AGTTCCCTCTG	ACTGAGTCCG	CCACAGCTCG	CAGACTGTGT	TTAGAACGCC	GGGCTCACCC	360
	TCGTACGCTA	TCTTATAGTT	CTGCTGAGCA	AAGGAACCAC	TAGAGGCTTG	CTTTGGGATC	420

1011I1

35	GATCTGCGCG	GCGGATGTTT	AGCAGCGACG	CGTATCTAAA	CAATTTTCGAA	GTTGTCCAAG	60
	GCCTGACCGT	TCCAATAGAC	CGCTCTAGCT	ATTCCCAGTA	TGACAAATGG	TTTAAATCGC	120
	TAGATGCAGC	TGCAGAACGT	ACAACCTGCC	GGTTAGAGCT	GTCGGATGCT	TCGGCCCTGC	180
	AAAACCTTCTA	CGCTCACGAG	GCCAGGATGA	TCTGCAAAAA	AATCATCCAG	ACCAATGGCC	240
40	CCACATCTTT	AATTCACTGA	GTGTAATGTC	CATACCTCCA	GTA CTACCA	GTC TTTTGGT	300
	TTTCTGGATG	TCAGATACCA	GACTATGTAC	TGAATAGCGA	CAACATTAGA	TATCTAAAAA	360
	GTCTGTGGGT	TTACAATCTT	AAGGTCGGCT	GAAAGAAGAG	AAACAATCTT	CGAAAAAAT	420
	ACTAAGGCGA	ATATATCAAC	GTAATATGAC	CGCTCAGGCT	TCGGATAACA	TTCCGATATC	480
	AGAGGGAGAA	GACTCCGCNG	GNGTCTTGNC	NNTCNNGCGN	AAATTGCNCA	GTNTTNATCC	540
	CGGNAGCCNC	CCACNGGTTT	TCANACCCCT	TTTTNGNGNT	TCNCGNCAAT	NAAGGGNGNC	600
45	CTCCTGCANT	TACCCTANNA					

Pag1011rp

5 1 GATCCAAAGC AAGCCTCTAG TGGTTCCTTT GCTCAGCAGA AGCTATAAGA
51 TAGCGTACGA GGGTGAGCCC GGC GTTCTAA ACACAGTCTG CGAGCTGTGG
10 101 CGGACTCAGT CAGAGGAACT GAAGAATGTC AAACCAGTAG AAAA ACTTCA
151 TAGCAAGTTC ATCCTCGTGT GGTTCCTC TATTATCATG GCCAGGTGCC
201 GTCTCGCGCC TATTGGATTC ACCAAGAAGT ACGACTTCCA CGATGGTGAC
15 251 TTCCACGCAG GTAGCAAGTT TTTGGACCAC ATATTTGAAC AGAGCAGTAA
301 CGGCAAGGAG CATGTGCGACC CCGATTTGGT GCCCTGGAAA GCTTGTCAGC
20 351 GACACCATCG GCAAAATCAT ATATGGGAGG AAAGGTGGAC GACCCCGCTG
401 ATTTGGACTG GTGCAAGANA TCTGCGCGGC GGATGTTT CAG CAGCGACGCG
25 451 TATCTAAACA ATTCGAAGTT GTCCAAGGGC TGACCGTTCC ATAAACCGCT
501 CTANCTATTC CCAGTATGAC AAATGGGTTA AATCNCTAAA NGCANCTGCA
30 551 GAACGTACAA CTGCCCTGNT TANANCTGTC GGATGCTCGG CCTGCAA ACT
601 TCTACNNCNC GAGGCCAGNA NGATNGGCAA AAAAATCTNC AGANCNANGG
35 651 CCCCTCCTT TAATCCCTNG ANTNTNATNT CCAACCNCCN TTNCCCCATC
701 TTTTGNNTTT TGTNTTAAA AACCAAATTN TC

1012/RP

1 GATCCTAACC CAACTGCACA AAATTGTCAG TCATATGTTG GGAGGCAGTT
5 51 TACCCTTCCG CCGCAAATA CATACTTCTC CTTAGGAAAC GTCCTCGCT
101 CAGGACTGCA ACTGCATTGA CGAGCAGCAG AATAACGTAG AATAGCTTTC
151 CCAGGCCAAA TATCATCCCT CCACGTACAG TCTATCAGCA GTGTACTGCG
201 CTGTGCGAGA AGTGGCATTG ACAAGATAAG CAGAAGTAGT TCTAAAAATC
251 AGTGGTCACC AACGCGAGGC TGCAAATCG TGTTGTTTCA TCCCATCTCA
10 301 AAGCATCGCC TGAAAACAAA GGCTCACAGT TGCAGGTGCC CCCGCGTGAT
351 AACAGATGAT AATTTATATT TTAAGTTATA TTAACACACA TATACAAAAA
401 GATTTGGTAG TGGATTAATG ATGATTTGCT TAATCAGCGT TACGTCTTGC
451 GGCCCTTCTTA GCCAATCTCT TACCGGTACC AAAGACCTTC TTACCTCTGT
15 501 TCTTTCTTTG CTTTCTCTGT TGTCTGGAAG CCTTCTCAGC CTTCTCAGCC
551 ATGCCGTATC TGACCAATCT GTANGTTGGC TCGAACTTCT TGGCGTCNGC
601 AACAGAGTTG TAGATCAAAC CGAAACCGGT GGACTTGCCA CCACCAAAC
651 GGG

1011UP

	GATCTTCACA	CGCACTATTT	GTCCAAGGGG	CTTCAATCGT	CATTGCATTA	CACGAAGAAA	60
	CAATACTTAC	ATGAGAATGG	AACAATAATA	AACTAAGCGT	ATGGTGCCTA	ATGATTGTCC	120
5	AGATGGGCGT	TGCTGTTCGT	GAACAGTAAA	TGCTTGGCAA	ACTCATAAGA	TGTCCACGAT	180
	ATAGCAGTTG	CAGGCATGTT	GCTGATAATT	CTGGGTTTTA	GGCCCCGAAA	GAACCCGGAC	240
	CAACCATATG	TTTTGTGGAT	TGCAGATGCA	GCCTTGCGGA	ATGTGTTCAGC	CTCCTTGAAC	300
	AGCTGACTTT	GAACAGAATC	TGCACCGCGA	ATCTGCAATA	CTGTCTTCAC	GCAGTCTAGC	360
	GGTGTGGGTT	ATGGCGGCAC	ATGTTGGCGC	CCGGATATCC	CACCGCACAG	ACAATGTATC	420
	CAGGGGTTTG	TAGCTGGTTA	CTCGGATTGA	TTATTTTGGT	GGATGATTCA	ATAAATTACA	480
10	AAAATTCAAC	GCTGCGACGG	ATTGTTTATA	GCAATAGTTG	TCCGGTTATG	ATTAGAAAAA	540
	CGCTTGAAAT	GCCCCTCGTG	GGTCAATCCG	CACGGGGCAT	CCCGCAATGG	ANCANTGGGG	600
	TGAANTGAAC	TCTTTGGTGG	GNGNNANCGG	TCCNNAGGGA	C		

1012UP

	GATCTTCCTC	GAGCGCACCA	CGCCGCCCCA	CACAGACTCC	GAGAACCTGC	TCTTCCTGGA	60
	GGGCACCAAA	ACATGCTTCC	AGATGTTTAC	GCAGCAGGTG	GAGGTGCGCG	CAGGCTCGGG	120
	CCAGGCGAAG	ATCCTGGTCG	GCGTCGTGCA	GCGCTTCTGC	AAGCTCCTGT	TCGAGCGCCA	180
	AAGCCACTGG	ATGCAGGCCA	TTTCGTCCGA	GGTCAAGAAG	TGCCTCCAGT	ACAACCACAA	240
20	GTATGAGAAA	GACCCCGACA	ACATCGCGCA	GGAGGAGGAG	TGCGCCGGCG	GCCTCGTCGA	300
	GTACCTCGTC	GCGGTCCGCA	ACGACCAGAT	GAAGGCCGCA	GACTACGCCG	TCGCCATCTC	360
	GCAGAAGTAC	GGCTCCATGG	TCTCCAAGGT	GCACGAGCGC	ACCATCACGA	ACCGCATCGA	420
	GGAAGACCCCT	CGACGGCTTC	GCAGAGGTG	CCAAGTGCAG	CAACAGCGGC	CTCGTCGCCC	480
	TGATCTTCGA	CGACCTGCGC	CGCCCCTACG	CCGAGATCTT	CAGCAAGGCC	TGGTACTCCG	540
	GCAACACGGC	GCAGCAGATC	GCAGACACCC	TCTACGAGTA	CCTCGCCGAC	ATCCGCAGCC	600
25	AGATGAACCC	TTGCTCTACT	CCACCCTCGT	CGAGTCCGTC	ATCGAAGAGA		

1013I2

	TCGACAAGGT	GACCAAGGAG	AAGTCCAACG	GTGCCTCCGT	GCCATTGGAC	GTCCACCCAT	60
	CCAAGGTTGT	CATCACCAAG	TTGCACTTGG	ACAAGGACAG	AAAGGCCTTG	ATCGAGAGAA	120
	AGGGTGGCAA	GTTGGAGTAA	ATGCATTCCA	CAGGTCAGCC	AGCATATTAT	AAGTAATTAT	180
	GTTCTACCAA	CTCTCCTCGA	TATATAGTAA	GTTCAGAAAG	TCGTGTTTCA	CTAGTGTTTA	240
	TCAGTGGGCA	TAATGACTGC	TCTGGTGCTC	CGCTCGTGCG	CAGCCATTCT	TGGCGGACAG	300
	CCATGACTCC	CGCGGACCAG	TGAACAGGCG	CGAAATTCCG	TTCTCCGGGC	CGACCACNT	360
35	TGGACTCTTA	TTGATTTCCT	TCCGCCCTAA	GAAAGTAGAC	AGCGCCTACA	TATATGACAC	420
	ATCCCTGTCT	GGGTGTTTAA	GGAGCACCGC	TCTGAAGAGC	AGGGAAAAACA	CGGAGTCACT	480
	AGGCTCTGCT	ACGGCTCGAG	GTTTTGGAAG	TGAGTTTGNA	ATTATTCTGTC	CNNTGAGAAN	540
	TGANAGGGGT	GGAGGCCGTC	ACCCGATCAA	CAGACNANCA	GGCAATGGTN	TGAGTNGNAA	600
	CACAGCNCGG	CGAGAACGTG	GCAANCNTCN	ANGNA			

40

1013I1

	TCGACGCGGA	CAGCGTACTT	CAATCTGTAG	ACAGAAGAAA	CCTTGCCCTC	TTGGCCCTTC	60
	TTGGAGCCAC	GCACAACCAT	AATCTCGTCG	TCCTTTCTGA	TTGGTAGAGA	CTTGATGTTG	120
	TACTGCTCTC	TCAACTCCTT	GGATAGAGGA	GCAGACATGA	TCACGCGGCG	CTCGGAAGAT	180
45	GGCGCGTTGA	AGTACGCCTT	TCTGGCCTTT	CTTCTGTGCG	AGGAAACGTC	TGCAGACATG	240
	TTAGTACTGT	GCCGGGCCAC	CAACTTGTTT	CACGCACTGG	ATTATGCTAG	GTCCGCCTGC	300
	GCGCTGGGCC	GTATGCCACG	GTTACCAACG	ATCGCAGCGC	CAGAGACGCT	CATTCCCAAT	360
	GTTTCGGGAG	CCACCATCGT	TCTGTACAT	ACCTAGAGAT	TGCTTAGCCA	TTGCTGATTC	420
	GCCTGGTGCT	GTGTAAGAAC	CTCTGTTTCA	NNATGTGNAN	AATCTCAATN	GTCGNAACTT	480
	TTTCANNTTG	TCCCGNCTAC	GCTGNACCCN	CTNNCNNTCG	TNAANCNCCN	NNNNNNNNCN	540
50	CAANCGTTTC	GCTANNTNNN	TCCTANANAC	NNANANNNNT	CNNCINNNAAN	NCCCNNCNNN	600
	CACNNTNTTC	NACCNCCNNN	CAANNNNNNN	NNCNNNNNNN	NANCCCNNNN	NATNCNTCAT	660
	NCCCCCTTNC	NNNACTNNNN	ANCCNNNNNC	TNNNNNNANN	NTNNNCNNNC	ATNNNAACNA	720
	NAACNCC						

55

1013RP

	ANAATGGCTG	GTAGTTATTG	TTAACCACTA	GTTTCTCCCC	GAAGTTGAAG	TACTTCACAT	60
	AACTCAGCCC	CTCCGAGGGA	CTCATCTCCT	CGTACAGAGG	CCTATTCAAC	TCAATGCGCT	120
5	GCTTGTAGTC	CTCCAATGCA	TCCTGCCTAT	TCCAACCCTT	GTNGTCTGCA	GAGGCTGCTG	180
	CCATCTCCAC	TGTGCGCGCC	CTCAGAATTG	ACTCGCTCAC	GACAGACTCA	ACGAAGAATA	240
	CTTTTACATT	AAGAGCAGCA	AACTCCTCGG	CGAGCATTC	GCGCTCCTCG	CGCATGATGT	300
	TCATCCCATC	ATAGACAGNA	AGCTGTCCCT	GCTCGAAGAA	CTTCTTCATG	TCCGCCCTGGA	360
	TCTCGGCTAT	CAGCGTGCGC	CGCAGTCTGA	TCCCTTCCCG	CGTAACTGGT	CTGGTAGAGA	420
	AGTAGTCCAG	CGGTAGNTTC	ACCATCCCC	GCGGGACCCG	NGNCCNCGA	TACTCGGACA	480
10	CANTGAAGGA	TTGTGTGNGC	ACCCCNAGCC	ACCCCCGTAT	TGCGTGTATT	GNCACCGNAA	540
	CAANNNTTTT	GGGTGNTCGT	TGNAGGCCAC	CCAGGACGNA	CCAAAATTTT	TCCCGCNTTG	600
	GAAANCCCCC	CAGNTCCCAN	NNNGNAAATT	GGNCCCCGGG	AATTTTTTNG	CCCTNGGCNC	660
	CNCCGNCG						

1013UP

	GATCGCTTAC	CAGCCCAGTA	GTGCGCCACA	GGAACTTGAG	GTTGGCTATC	CGGCTGACAC	60
	GAAGTATATC	GACCCCTTTGG	CAGAAGTTGA	CATATGTAAA	CGGGATTTGC	CGCATTTGAA	120
	AAAGCTCGGA	GTCAATACCA	TTCGTGTTTA	CTCCATTGAT	CCAACCAAGC	CACATGACGT	180
20	TTGCATGGAG	GAGTTGAGCA	AGCTGGGAAT	CTACGTTCTC	ATCGATTTAT	CAGAACCAGA	240
	CACCTCTATA	ATTAGGGAAA	CACCAACATG	GGATGTAAAA	GTATTCCAGC	GGTACAAAGA	300
	CGTAGTAGAC	TCCATGCAGA	AATAACAATA	TGTTCTGGGC	TTTTCTGCTG	GTAACGAGGT	360
	CACTAATGAC	CGCACGAACA	CAGACGCATC	GTCTTTTGTG	ACGGCGGCTA	TCAGAGATGT	420
	CAAAAACTAC	ATCAAGCAAA	TGGGATACAG	AACCTCTCCG	GTTGGTFACT	CACCATCGAT	480
	GACCAGGAGA	CGAGGGATCA	CTGGCCTGAT	ACTCCCCTTC	GGTNGCGTAT	CTNCAGANNC	540
25	TTTTGGCATA	ANTTTGTCCG	ATTGGGCCGG	CATCCACCTN	CNGACGANCG	TTCAAGAGAG	600
	NGGCTTNCNA	TTCNNGAACT	CCCCTTGCCG	CC			

1014RP

	GATCAAACTG	CCGTCTTGCC	GCAGCACGCG	GCCgCGCGAG	TTGGATACGC	GGTCCGCGTC	60
	AAAGGCCACG	CCgAGCGCGC	CAAACTCCGG	GAGGGGCTGG	CCGCGGTAGC	CCAGTGACGT	120
	GATAAGCACG	TCCAATTTCGT	AATCCAATTG	CTCGTCCAGG	TGACGTACAA	CCTTGTTTTC	180
	AGGGGTGAGG	GAGTTTTTTCG	AGACGGTCAG	CGCAGATATC	GCGCCGGCGC	CGTCCCTGCG	240
	GATGTAGAGC	GGCGTCTTGA	GATAGTCGGA	CACCCAGGCC	TTGGAGTAGC	CTTCCGCGCG	300
35	AGGAGGGTAT	TTACTCGCGG	ACTTGCTGCC	GCGGGCGGCG	TACGGCAGCA	GGTACTGCTG	360
	GCACATGTCA	ATGCGGCGTT	TCGTGCGCGG	GTCgAgCGGC	AGCgCCGcCC	ACGCCTcGGG	420
	CGTGAAGTGC	TGCGGCGCGA	TGTGGCCGCG	CACGCCGCG	CGCTCGAGCT	CCCATATCTC	480
	GCGCAACTcC	TTGNTCGTGA	ACTTGCTGcC	GAGGAAGTCC	CGGCGCCCGA	TGAGACGCAC	540
	CTCCTCGAGC	GGCgCGCGCC	GcAaCGCCTG	CAGCGCGTgC	gGGTTTGATG	TCGGtCTGGC	600
	CC						

1014UP

	GATCAGTGTT	CGGGGCGAGC	CGGAGAGcAT	ACTGCTGTCA	TGTCATATACC	AGGAGCTGCT	60
	CTCGCGGGTC	ATTGAGGAGT	CCAAGCGTTT	TGCAGACAGG	GACAGCACCA	AGCACATCAC	120
45	AGCCGAGCAC	CTAGATGAGG	CGGTGGAGGC	GTTGCTGGGA	GATGTAGACC	GAGGCGCGGA	180
	CGGGGCATGG	CCTTGATGTA	AGTCTATGTA	CAGGATATTA	GCTTTCAAAA	TGCATGGTTG	240
	GGGTACTTCA	GCGTTTCCAC	CATGGAAAGG	GCGCTGGCGG	CGTCGTTTTT	GTTGAGCACG	300
	AAGAGGCCCT	GGAGCTGCGC	GGtCGACACT	GGGACGCCA	GCGCGACGCG	CTTGCGGACA	360
	AACTcCGCgC	AGAGCGCCgA	GTCGTCCGGG	TAGAAGCGCA	gGAACATCTG	CTCGATCTGG	420
	TGCGGCgTTG	CGTTCCCCAC	AAgGACCTTG	TAGTCGATgC	GGCCCCgGCG	CaGCACGGCG	480
50	GGGTCGAGGA	CCTCGGGATG	GTTGGTGGTC	ATAAAGGTGA	TCATCTTCTC	ACTGGAGGCG	540
	ACgCCGTcCA	CAGCCGTTGA	AaCGTGACGC	CGTTGGTGTA	ACCGTCGTGC		600
	TTCTTCTTgC	GCTTgACAAA	GGCGCGT				

1016RP

	GATGTGAATC	GATGTGTGGA	GACGAGTGTA	ACTAGACACA	AGCTGGCGAT	GCAGCGAGAT	60
	CTAACAGGAA	AGGTGCTGGT	TGGGGAGAAA	AGGTACTACG	AAGAGGTAGT	CACTAGTGTC	120
5	ACCTACAAGC	CTACACACCA	CCAACTGCGT	TACGAAAATC	TAAATACGTA	CCTCTATCCT	180
	ACAAACTACG	AGGTGcGCGA	ATtCCAATTC	AATtTTGTCC	ATCGtGCGTT	ATTcGAAAAAT	240
	GTGCTCTGTG	CGATTCCCCAC	AGGTaTtGGT	AAGACCTTCA	TTGCCAGTAC	GGGGATGCTC	300
	AATTACTATT	GGTGGACAGG	GGGCACAAAA	ATTATTTTTTA	CTGGTCCCCAC	ACGACCACTT	360
	GTtGGGCAGG	AAATTAAAGC	ATTCCtGGGG	aTTACTGGTt	TTCCCCNTTA	TGATACGGGA	420
	ATNCTTCTTT	GACAAGAGCC	NNNNGCACAG	GGNACAGATT	TGGGNCAAAA	GAAAAcGTTT	480
10	TTTTTTTCGN	NAACGCCCCC	CANTGGGGGG	GNAANTTTCC	CCNNCGAGAG	GGGGGACTTN	540
	NNTCCCCNNA	GANNNTNGGN	TTTTCTNGGG	NNTNNGNNGA	NGGNTCCACC	CCNGNCNNGG	600
	GGGGCCACN	NCCCCNCNN	NNGGNNTTTT	NNGNNNTTN	TTTTNACAAA	ANTTNC	

15 1016UP

	GATCCATCGA	ACGTCCATTT	TATACGACGA	CATTTTTATA	CAATTTTTAT	TTAATAATGA	60
	GGATTTGGCA	TTCCCTCAAA	CTCGCTGACT	AGAAGTTAGC	TGGTGCTAGT	AGTGTAGCTG	120
	GGCTAATGTC	GACTGAATTG	CCGTTGCCGG	TGCTGGAGGA	TTATTTTGTG	TCCGCAGCTA	180
	ATGCCTTCCT	GCCAGATGAA	TTCCCAGTGA	AAGAATTGCA	AGATGAATAC	TATCGACCTT	240
20	GGGAAACGAT	TGTGAGTAAT	CTACCCGCGC	TATTGTTGGC	GCGACAGCTG	CGGGATGTGG	300
	TGGACCAGCT	GAAGGTGCTG	GAGGTGAAGA	AGGAGCTGTT	CGACGATATT	TCGGCAGGTT	360
	CGGCGCGCAT	ATTcGGCGTT	GGGCTTCAAC	GTCAATGCGT	ATGTGTCGAG	CTACGACGAC	420
	GCGTTTCGACA	CGATT					

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1017I2

	GATCTTCTTG	GCGTCGGGCA	TCAGACAGGC	GTAACATAATT	TGATCATTCC	TGGTGCGGGT	60
	GAGGCTAACT	ATGATGCATT	GGAAGTTAAT	CCTTACGAGA	CGACGAAGCA	AAGGAAAGAG	120
5	CAGGAGGTTA	GATCGCTACT	GAACAAATTA	CCTGCTGATT	CTATTGCATT	AGATCCAAAT	180
	GTGATTGGTA	CGGTCGACAA	GCGTTCTGCG	CAGATTAGAT	TGACCGCCAA	AGACCTGACC	240
	CAAAATCGCAA	CTGATGAAGA	CATGAAATCT	AAGGAGAATA	GAGACATTCC	AAAAGCAAAC	300
	CCTGCTGTGA	AGAGTAAGAA	ATTCAGGTCT	GCGTACATT	CTCCGTAAGA	AGACGCAGAA	360
	TGTTGTAGAT	GAGAGGAAGT	TGAGAGTACA	GAAGCAGTTA	GAAAACGAAA	AGGNGGCCCN	420
	CTTGCGGAAG	CANCAANGCTG	CTGAGGNGAG	CTANCAGNAG	ATNCGANCTN	CCCTGNCGAN	480
10	GCGTCAGCNA	GTCCTACTCGC	NNNNNNCTCA	CCNNNNATTC	TTCTGTTNNCN	GANTTCACNC	540
	CANNNCNCCT	CCCCNNCTNN	NNCTTNCCCN	NCCTNCCNNTC	ACCNCNNCNC	TCCCNNTTCC	600
	NANCCACNC	CCCCNCCNCC	NNCCCCNNCN	CCNNNNNNAN	NCNNNCCCCC	CTCTNCCCCN	660
	NCCCCCNCNT	NCC					

1017I1

	GATCTTCAAA	TGGGACAAAT	GCAAGGCTAT	TGATCTTATT	CCCAGCAAAC	AAGTGCGACA	60
	TGTATGGTGT	ATTTTTGTGTG	GGCAACCGAC	TGCTGGTGAA	AACGGGCTTA	AAATCTGAGC	120
	TAGTTTTAAA	GGCATCCTTC	CAAAGTGTC	CATGTGGTCC	TCTCGACACT	GCAAGCAAAGC	180
20	CCATGTCAGA	GATTTTCAACA	TTGCTTGCTG	GTATAGGCAG	GTTTTCAACG	GAATGTAAC	240
	CCTTGAAGTT	CCTGATATCC	CACAGTCTCA	TGGACTTATC	TGCTCCGGTN	TGTAGCCATA	300
	TAGTAACCTT	GCCTATCTAC	CGCGACACCA	GTGACGGGCC	CGGTACC		

1017RP

	GATCAAGGTT	GAAAACGAGC	AGCGTGATAA	AAAAGAGCAT	GACGCCGATG	TCCCTGAAGA	60
	GGAATTTAAG	ATTAAATATA	CCTCGACCTA	CTATAAGGTT	GAGAATATGA	CGCGTGTAGT	120
	ACCACAGCAA	TTAAATATA	TTGCATTTC	AAAGGATGAG	AGATTTACTC	CCGCTCGCAA	180
	GTTTAAGGGT	AGCAATGGCG	TTATAGTGCT	ATCGGACAAA	ACTCCTGACG	AGCCGGTCTGA	240
	AGTAATCAAA	ACCGCTAGAC	AGGAAAAAGA	GACGGATGCT	CCTCTGCCTG	CTCCCTTCAA	300
30	GGTTCAGGAT	GACTTAGAAT	TCTGAACTGA	TAATTAGGAA	GCGTCGATTA	TGTTTATTAG	360
	GAAAAAGGGT	ATTTTTTCTA	GAAACGAAAG	AACTTACTGA	TTGCAGCTCT	CTCTAAACAA	420
	GTATATTATG	AGGTGATTTA	TTTCAACTGA	ATCTGGCTAA	CGCCCGGCAA	CTAGGTCTTA	480
	TCTTCTTGTA	GTCACCCTAG	AGGTGGTGGT	CCCCAANC	CNC		

1017UP

	GATCTCCATC	CACGTTTTTG	CCTCGTTCCT	GAGCTCCTCT	GTGACTTCAT	CCTTGATACG	60
	CGCAATTAAG	CCAGGGCCTC	TGTATGCGTA	CGCAGTGTAG	AGTTGCACAA	AGTGCGCCCC	120
	CGCTTTGGCA	AACTCGATGG	CATCCTGGCC	ACTACTGATA	CCACCACATC	CAACCAAAAC	180
40	CAGGTTCTGT	TCCTTTGTGT	ATTGGTGAT	CGTGCGCAA	GCTTTTAGCG	CAAAATGGTTT	240
	CACGGGCTTG	GCGGACAAGC	CGCCTGCCTG	GTTTTTCAGC	TCCTCATCGA	CAGTGTACAG	300
	CGAGTCTGGC	CTTTGGATAG	TAGTGTTTGG	AAACGATGAT	ACCCCAATA	CTCGATTTTC	360
	TTGGGCCGCC	TCTGCGATCG	ATTGGAATCC	TGGCTCGGTC	AAATCCGGTG	CGATTTTAAC	420
	AGGAAAGTTG	GTTATGGTTA	CTGGACCAAG	AAAAATGCCNC	CGTGGNCAA	GATTGGGTTA	480
	GCANAACAAG	NTN					

1018RP

	GATCATCGTC	GAGGAGTACA	CGCACTCGCT	CTgcgGTC	GTGAACTTCG	CCGCGTGACA	60
	CCCGtACTTC	TTCGACGCCA	CCGTGTTTCA	GAACCGGCAC	CCGGCCGCGT	CGTACAGGTG	120
5	CATGTTGTG	CACGCCGTG	CGCTCAGAAG	GTACTGTCCA	TGGTCGTCTGA	ACGACAGCGA	180
	CGTGATCGGG	CCCTGTTTCT	TCTGCGCCAC	CTTGAAAGAC	TTGACCGCCC	GGAAACCCCGC	240
	CAATGTGTCT	TGTGTGATCC	CGATACTCAT	CCCGCTCGTC	TTGCAGCTTC	CGGTCTTTGG	300
	CCCTCTCGCC	GCTGCTCTGC	ACTGCTGGCT	AGCAGAGCTC	ACCAAAATTT	TTATAGCCAT	360
	GGCCAGGCCA	AACTTcaCTA	ACTGGGGAAC	CACACGACCA	CAGCAAGCAA	TGCCCTCAGT	420
	ATGTcgGtCG	GtCGCACCGT	CCTGGGATCG	CTACTAACCC	GCACAGCTCA	AGCAGATGGT	480
10	GCACCTCAGC	GCCgACCTCG	CGCTGGtGGC	GATGGtGCTG	GCC		

1018UP

15	GATCGCGTGT	ACGACTTCAT	GCGGATGCac	tACGTTATCA	CCCAGATGGT	GGTGCGGCGC	60
	GACTTTTCGGT	TCATGCGCGA	CTACCTGGAG	GTCCTGGCGC	GCCGGCTCGA	GCAACACGAG	120
	TTGTGCGATG	CCCGCATGTC	TGCCGCTGTG	CAACGGGACC	ACATTGCCCG	ATACACCGAG	180
	CTGCTGATGC	TGTATGCGCG	GAAGTCTGGG	GATGAGAAAA	TGCTGGCGGA	GCTCTTTGCC	240
	TCCTTGGTTCG	ATAGTCTGCC	TGCGGGGATG	GGCGGAGCCA	CTCTTCGTCA	GCCATTGCAT	300
	GAAGTCATGA	CGTACCTGAT	CAGCGAAAAC	CAGCCGCAAC	AGGTGCTGAA	ACTGGTGGCG	360
	GGCATGCGCA	AGGCGGAGCC	CAATCGGCGG	CCGGGCAAAAT	CCTCCGTTCC	AGGCACCTTG	420
20	GCGCTGGTTG	TTTCGGCGTT	GCGACAGTTC	AACAATCCTA	ATCTCGTCGT	GAGCTTTATT	480
	GTGCAGGCAT	ACAGAAAGAC	GCAAACGAGA	GTGCTGCTGG	GACAACTCgG	GCTATGGTCT	540
	CTGGCATTTT	ATGGCCGCGC	TGTTGCGCTC	TCTcCCGAgG	CGGCGAAgTC	GCCGCAgGAG	600
	CTGGCGCagA	TATCGcCTGT	GGACCTGCCG	AAGGAGCTAA	TACTGAAGTC	CGtACCTgaC	660
	AGCTGATAAT	GTGCgAGCTC	TATCAGCGAA	TCTATcCgAG	AAgCGATCGc	AGGTGCCCGc	720
25	GGAgGAgTAC	CgCGAGATTT	AATCCAgCTa	TTTGGCGTTT	AcCAGGACTT		

1019RP

30	GATCCATGAC	CCATGCTAGG	TGGAAGGAGC	CCTTACCCGC	TAACTCGGAC	TCCCTCTTCA	60
	ATTGCGCTTAT	CAGTTTGGTA	TCCACAGCAC	CCACGTCGTA	CAACAACCGC	CCCATCAGCG	120
	TAGACTTGCC	CGCATCCACA	TGGCCTAGAA	CAACAACGGA	CATATGGGCG	TTCTTCTCAC	180
	GTACATATGC	AGGGATGTCG	AATGGGTTCC	GCGGGTTAGT	GGGCTGCACA	ACCTTCTTGG	240
	CCGACGGCTG	TTCGCCCTCC	TTCGGCCGCG	AATCCTCCTC	CTCGTCTCG	TAGTTCTTCG	300
	GGGCCGCGTC	CTTGTTGTTG	AATTTTCAGAT	CGGCCACCTT	CTCGGCCACC	TGCTTAATCT	360
	CAAAGGCTCG	CTTCTGGGAT	TCCAACACCA	CGTCATCCGG	CGAGGGCTTC	ATGAAATTGG	420
35	CACTGGCCTG	CTTCTTAGCT	GCTTTATAGT	TGTTAGGATA	AAAAACTGAG	AACACCTCCT	480
	CCACTCGCCT	CTTGAGCTGG	GTTTTGCGTG	GTTCTGCGCA	TCCTGTCTGT	CTCGAGAGGA	540
	GCACGCTCGA	CAGCTGCAGT	GCAgGGCGCG	CTGCAgGCTT	GAAGGACGGc	TGACGCTGCA	600
	GAAGAgCCCC	CAGGGcCATc	CAC'TGGTCTT	GcCgtgCCTc	CGTCCCTTGG	GGGCGCGCTG	660
	cAACAgGCTT	TGcCTcAGCG	TCGcCGCGCG	ACTGc'TTCG	AgAGACgACA	GCGTcTGCAT	720
40	cAgCgACgCG	CCCCG					

1019UP

45	GATCGCAGAT	TCATCATCGC	TGTTATACca	gGCTCTATCT	TCCTCGAGGT	CCTCGGGACC	60
	AAACGCGGCG	CTCTCTTGTT	TGCCAAGAGG	TGCAGGACCC	TCGGCGCGAT	CCTCGGCCAG	120
	CAGAGTGGCA	ATCTGGTCTT	CATCCGCTAT	CGCTGTACGC	TTAGGCACAA	AAGCCAGTTT	180
	TTCCGTTTTG	TCGCCGTGAT	CATCCTGCTC	GAGCGTGCTC	TTCTGATCTC	TGCGACCCCTC	240
	TGCAAACTCT	TTGAGCTGCC	TTGCTGTGCT	CTTGTCAAAT	CGCTTAAATC	TCAGCGGTTT	300
	CTGTTTCTGG	CCACCGCTCC	CCAAGCTCTG	GTCCGGCTCC	AGTGCTGTTT	CCAGTTCGTC	360
	GTCCGAATCT	TGAAAGCTCA	gCGCGACCAA	GTTTCTGGAT	GTGTTTCCCT	TCACGCGCTC	420
	CCCGTCAAGG	ACAGCCTTCA	CCGTGGTGTG	TGTGCGCTCC	TCCTGCGTAC	TcCGCAGGGA	480
50	TACTACGAGC	TCATGCTGGA	ACTTCTCCTC	CCCTTAAACT	TGCCAAGCGC	CATGCAgCTC	540
	TTAgTGAAC	TCACTGGATC	GTATGCATGC	ACGCGCGCTA	TATTGCATAT	CGGCTGcACA	600
	AACTTTCTGT	GAcATTGGAT	gCGGATGTTG	GTGGATCACT	CCTTcAGCCG	GGGtCATCGT	660
	CTTAgtCTCCT	ACCGTACTTG	cTcTCTcAgA	TgCatGATGt	GtAcCATcGc	ATcTTCAGcT	720
55	tGAcAGACTT	CCATATACGT					

1020RP

	GATCGTTTCCT	GTTTCTGCGG	GCAAAGTTCA	GAATTGACCT	AGTGCCAGAC	ATGACAGTAT	60
	CGTTCAAAC	CCTCGGAGAG	TTAGCCTTGG	ATATCCACCA	TGAAGACAAA	AACCAGAGAC	120
5	CAACaGCGGA	TCCTACCAAA	ATGGcCAGAA	TACCGAAAAA	CCAGTGCAAT	TCTCCGGTTG	180
	CTTCACCTGG	GACAGTGACG	TTCATCCCAA	ATAGACCCGT	AACAAGATTC	AAAGGAAC	240
	ACATTGTTCC	AATCATAGTG	ACCTTTCCCA	ACaTTTCaGT	AACaCGATTG	TTACACCGGA	300
	AGGACTCAAC	TTGCAATTGT	GCCAAGTAGT	TACCATGTGA	ACGGGAGAAA	ATCTTCTCAT	360
	agGACAgTAA	aTTTTGAAAC	aTCGGGAGGA	CaTGGTCCTG	AATATCTCCC	AAATAGAGCG	420
	CtATATCAgC	TctTGGTTgA	gTGCGCTGGA	CaTGATGAtG	TGTATGTTC	GAGCCTAgCC	480
10	TGGCagAcAg	AgGGTcgTgT	cCGCTAgCCT	GCAAgTTCgC	aaTGTTTATC	TCGAGGT	

1020UP

	GATCAGCACC	GTGCCCTTCG	TGTACGCCTG	CTTGGACATG	GTGTGCGACG	ACCGTGTGTC	60
15	GCATTTCTTA	CACGTGAAAG	CAATCATCAT	CATCGGCTTG	TCCACCTTTA	TAGACCGAT	120
	ATGCCGAAAC	TCATCTGCAA	TAgGCGGTTT	CTGGCTGTTT	TGCAGCTGCG	GCGAACCCT	180
	GTGGAACCGA	TGAgCTACCA	AATGCCCCCC	AAACACCGGA	CCCAGCACGT	ACTGCATGCA	240
	GTTACGGCTT	GGCGGAGTA	AACCAGCAAT	CCTGAGAgGC	CCCATCGAAC	GTCTAAGCAT	300
	TTTAAACAGT	TATACGTaGT	CAGCGGTTTT	CCTAAAAACAG	GACATGAgAg	TGCGTCGAAA	360
20	GAAgGcGTCA	TCTCAAATTT	TTCAACTTTA	GAAgCGCTGC	CCGAAAAAgC	ACCGTCaCCA	420
	TTTATCTATT	ACAAGATGAA	CaGTTAGTGG	TGCCGGCaAT	TGTGTCAGAt	ATATgTcTCT	480
	GGACATGGAT	ACAAGACACT	CTCgCCaCaG	AAgGAGCAGG	AgATAgCaTC	gAAAAATCTTG	540
	CAGaAGGCTG	AgCTGGcTCA	gAT				

1021I2

	GATCTGCGCC	GGATGGCTGC	GAGTTGAGCG	CGGCGAAGAT	GTGTGACTCC	TGCAGAAAAC	60
	GCTGGAGCTC	GATGTCCTGT	TCCAGCAGCT	GC'TTCTCGTC	GCGGTCCGCC	GCGGCAGATT	120
	TCGGCGCGGG	CTCGGTCTCT	AGGCCCGGCG	CCTTGCCGCT	GCGGATGCGG	CGCAGTTCTC	180
30	GTGGAGAAGG	CCCGCTGTAG	GCATCTGACG	GCGCGCGGAA	CGAGATCACG	CGCGGCGTAT	240
	GGGCCGCTTC	GTCTGTCGGAG	CTGGCTGAGG	CGCCGTCCAT	TTCGGACTGC	TCGTTCGGATT	300
	CAGACTGTCC	GGAGCGCGCG	TCCGCTTCGC	TCTCCGGGTC	ACTGTCTGCTC	TCCGAGGCGC	360
	TGGTGCTTGT	GTCTGCTGCTT	TGTGCAGCAC	GGGTCTTGTC	TACATATCCC	ATATCCTCTA	420
	GGGAGCCAAA	CTGGGCCTCG	AAGGCCCTCC	CCTGGGNCCC	GACNTGCTTG	NATTTATCTT	480
	CAATTGTCTG	TCATCCNNGG	GGGTTCCTTG	GCCCCANGAA	GTNTNTNANC	AGGAANCCCT	540
35	AGNANNANGG	TTTTCAAATT	CC				

1021I1

	GATCTCACCC	TGCGCACCAT	CGACAACCCT	GCATACGCGG	GCGGTGAGGT	CATCGGCAAG	60
40	GCCCCGTGCCC	GCACACTCGA	GATGCGCCTC	AATGCCCTGT	CCGCTACCAA	TGGCGCGGCA	120
	CGAACCCCTCG	AAACCGTGCC	TATGAACATA	CGCAAAGGCA	TGGTTTCCAA	GCACCGCAGT	180
	CGCATCCGGG	AGCACGAGCA	GCTGGCCCCG	GACTCCGGCA	CCGTCTCTGC	CAAGGTCCGT	240
	CGCGGAGAGT	TCCGGAAGAT	AGACGCAACC	TACAAAAAAG	ACATCGAGCG	TCCGATTGGC	300
	ACGACCATCA	AGGCTGCAGA	CCGTGCCCGC	AAGAAAACACC	GCGATC		

1021RP

	GATCCTCGAG	TTTGTGCGCG	GCGGGTCCCG	CTCATTTACC	TAATCCTGTC	TATAGTAAAC	60
	ACGTGTGTGT	ATCTACATAG	CGCACCTGTT	GTAACCTTACG	CTGCACGCAT	GCGCGGGCGC	120
5	ACGTCCCCCA	CCAGCGCCCG	GTAGAACGCC	TGGCCCGCGC	GCCGCCCGCC	CAGCATGCAC	180
	AGGCGCAGCC	ACGGTTTCAT	CGTGATCAGC	AGGCCAGTCC	ACAGCGGGCC	CTGCACCAGC	240
	GGGATCAGCA	GGACGTCCCG	CACCACCACC	TTGGCGACGA	CCAGTGCGCT	GATCCCCGTC	300
	TCGCCGTCCG	CCGTGCGCTC	GCCCTCCTTC	TGTGCCCGCA	GGTGTGCGTG	GCGCGCGCTT	360
	TCCTTCGCCA	GCGCTGCGCG	GAACGTCTTT	TTCGAACCTG	ACGTGCGGTA	TCGTTATTGC	420
	TTGGGGTCCA	TTGGAACGGC	TGTTCCGGGT	CAGAGGGAGG	ATTCTGCGC	TGGTTTGGTT	480
10	TTTACGAAGA	CGACCCTCGG	TGAGAATGTC	AGTTTGGCCA	CTNGGCAGCC	CCAGGAAGGA	540
	CCNGAATTTC	AAACCACCTG	AGTNGGGCGN	CGNGTAAAA	ACGCTAAGTT	AGTGCNNTGC	600
	ANACCCNCCT	C					

1021UP

	GATCGCGGTG	TTTCTTGCGG	GCACGGTCTG	CAGCCTTGAT	GGTCGTGCCA	ATGCGACGCT	60
	CGATGTCTTT	TTTGTAGGTT	GCGTCTATCT	TCCGGAACTC	TCCGCGACGG	ACCTTGGCGA	120
	GGACGGTGCC	GGAGTCCCGG	GCCAGCTGCT	CGTGCTCCCG	GATGCGACTG	CGGTGCTTGG	180
	AAACCATGCC	TTTGCGTATG	TTCATAGGCA	CGGTTTCGAG	GGTTCGTGCC	GCGCCATTGG	240
20	TAGCGGACAG	GGCATTGAGG	CGCATCTCGA	GTGTGCGGGC	ACGGGCCCTG	CCGATGACCT	300
	CACCGCCGGC	GTATGCAGGG	TTGTGATGG	TGCGCAGGGT	GAGATC		

1022RP

25	ANNNNNNGNN	NNNANGGTGG	GGCGTGGTNG	AaTAGTGGGT	CTtTCTGcCG	GGGTCTGTGC	60
	AGAAAACGAG	ATTCTGGGGA	GTATCTGAAA	TtCTTTGTTG	CGCCGAGCCG	tCTGGGTCTG	120
	CGTCAAGCGA	CAGCGAGTTt	GCGACAGGAA	CTGAAGCTAA	TTTCGTGTGCT	GGAGGTGTtTT	180
	TGGGGCTTCG	CGTTTtCAGC	CTTTCAGGAA	ATCTAGAGGG	GCTGTGTGCT	TTGAGGCTGA	240
	AATCAGGGGA	ATAGCCTGAA	TTTGCGAGCG	TGAATTGAGC	GGTTATATGG	AACTGTGGTA	300
30	CATCGNCACA	CTGTaCCACG	AGGACAGCGA	ATATCTGACA	GTAGGGcGTC	CTtCGtaAGA	360
	ACACAGtGTA	TCGCGTgAGA	TAGGTGTtGA	TTGAGTCTAG	CGTgCTAGGT	ACTCTTtAAC	420
	TTtCAGtCGG	tGTtttttt					

1022UP

35	GATCCAGCAG	ACGTTTTAAT	CACCGATTTT	TTCCGTAAACA	TTCAAAAATAT	AATTCTCGAT	60
	GACAGTGAGA	TAGATGGTGA	AACTCCAGCT	GGACTTACGG	AATCTGGCCG	GACTCGCAAT	120
	CTGCTAGAAT	TCGCAAAAGC	GAAATTTTTT	GGCANTGTAG	ACGCAGAGAC	TAATGGCAGC	180
	CATAAAAACG	TGATTCCAAG	CTATCCAGTG	GTAAATGAGG	ATTTACTAAG	TGGGGNANCA	240
	AATGCATCCA	CAAACAAAAT	GATAAAATTG	TGGGGGATTA	TCATCTTCCT	GGcACTAACG	300
40	TCATTAATGA	TGAAGTACGC	CAACACTGAA	AACATATCGG	GTAGTCGAGc	ACTATTATgT	360
	TTCTCTTAGA	AAAATGCTTC	AtGCTTCATG	GAATTAAGGc	GGcaACAAgT	GCAAGGTAA	420
	GAACGGaATT	TTaCTATaGG	CGCGAAATTT	GtaTaTaTTa	T		

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1023I2

	GTGAGGGAA	GTAACCAATA	TATTCACGAG	GGCTACCTAT	GGCATCAATG	AGACGTTCCG	60
	AACCAAAGAT	CGTCGGGTCC	TGGGTGATAG	CGCTTCTGTG	TGGGGTCTTG	TGTGCAAGCG	120
5	ACAACCTTCA	TACACGCGAT	ACTTCCCTGGT	TAGTGTTAAT	CTCAACAGCG	GTGAAGTTAT	180
	CTTCGATGAC	TTCAAAGAGG	AGCGTTTCT	GACGGAGGCT	TTGGAGACGC	GAATAAAATA	240
	CACAAACCCG	AGTGAAGTTG	TGGTCGGAGA	TGGCCTTGGC	TCAGAAATCG	AAAAGGTGTT	300
	TCATACTTCA	GATTCCGATA	TCACTCTAAA	TAGGATCGAG	CTCGTCGGGT	TGTATGAAGA	360
	AATCTTTCAGT	GAGCCGCACC	CAGCCTTTAG	GGGCAACGTT	CCTCTGCAAA	CAGCGCTCAT	420
	GCTGGTGCAT	GGCTACCTAA	CAAACCTTCA	AAATGAGAGT	TTACTCTTCT	TCAAGGAAAA	480
10	CTTTAAACCA	TTCTGCTCGA	AGACGCACAT	GATTCTTTCC	TTCTAGCGCT	ATTGGAAGCT	540
	TAGATATTTT	GGGACAGTA	CAGATAGGAG	CAGTAAAGGT	CCCCTGTTAT	GGGTNTTAGG	600
	TCAANCTAGA	ANAAC TAGGG	TTAAGGACTT	GGAGGACTGG	NTTGAAAGGC	CTTNTAATTT	660
	GGTCAAGTCA	ANAGAGTTGN	GGNNGCCAAN	GATTACACNAG	GNGGGNATTN	TCATGGCTCG	720
	GAATT						

1023I1

	GTGAGAAAA	CAGAGCTTGA	GGTCCCACTG	TTCTTTTTC	CTGCGGATGT	CTCTGTCTGC	60
	TCCACGACCC	CCACTTTCAG	ATTGTGGTGC	ATCAAGCGCT	GCAAGTGGAC	TTCGAGACGG	120
20	GTGTCTGGGA	TGGTGCACTA	CGCAAACCTC	TTGTGCTTGT	GATCAGCGGG	GTCTGTCTCG	180
	TGTACCGTAA	GCTTGCCGGG	CACCAGCTTG	ATC			

1023RP

	TGCCCCGGCAA	GCTTACGGTA	CACGAGACAG	ACCCCGCTGA	TCACAAGCAC	AAGAAGTTTG	60
	NGTACTGCAC	CATCCAGAC	ACCCGTCTCG	AAGTCCACTT	GCAGCGCTTG	ATGCACCACA	120
	ATCTGAAAGT	GGGGGTCTGT	GAGCAGACAG	AGACATCCGC	AGTGAAAAAG	AACAGTGGGA	180
	CCTCAAGCTC	TGTTTCTCG	ACGCTAGGGA	TAACAGGGTA	ATACAGATAT	CAGATCTAAG	240
	CTTGCCCTCGT	CCCCGCCGGG	TCACCCGGCC	AGCGACATGG	AGGCCAGAA	TACCCTCCTT	300
	GACAGTCTTG	ACGTGCGCAG	CTCAGGGGCA	TGATGTGACT	GTCGCCCCGT	ACATTTAGCC	360
30	CATACATCCC	CATGTATAAT	CATTGTCATC	CATACATTTT	GGATGGNCGC	ACGGCGCGAA	420
	GCAAAAAATTA	CGGGTCCCTCG	CTGNAGACCT	GCGAGCAGGG	AAACGCTCCC	CTCACAGACG	480
	CGTTNGATTG	TTCCCCACGG	CGNGCCCN TG	TNGAGAATNT	AAAGGTTAGG	ATTNGCAATG	540
	AGGTNCTCCT	TTCANTTNCT	CCCTTTTNA	ATCNTTGTNG	GTCAAGTCNT	CANATCAAAT	600
	TCCCAACATT	AACACCNTGG	TTAGGGAAGT	TCANNTTTCN	GGGGCCNNGA	TTANTTCN	

1023UP

	GATCTCAAAC	CTGAGAATAT	TCTACTTCAT	CAATCTGGTC	ACGTTATGCT	TTCTGATTTT	60
	GACCTGTGAC	TACAGGCAAA	AGGAACCAGA	AATCCTCAGG	TTAAGGGAAA	TGCCAGTCT	120
40	TGCTTGTCG	ACACAAAAGT	TTGTTCTGAT	GGCTTCAGGA	CTAATTCCTT	TGTTGGAACG	180
	GAAGAGTACA	TTGCACCTGA	GGTCATCAGG	GGAAATGGCC	ATACAGCATC	CGTGGATTGG	240
	TGGACATTGG	GTATACTTAC	TTACGAAATG	CTCTTTGGGT	TCACTCCTTT	CAAGGGCGAC	300
	AACACAAATC	AAACGTTCTC	CAATATTTTG	GAAGAATGAC	GTTTATTTCC	CAACAAATAA	360
	CGATATATCT	CGCACTTGCA	AGGACTTGGA	TTAAAAAGTT	ATTGGGTCAA	GAAAGAGAGT	420
	AAGCGACTTG	GTCAAAGTTT	GGCGCCAAGT	GAGATTAAAA	AAGCATCCCT	TTCTTTTAAG	480
45	ACCCGTCCAG	TGGGCGGTTA	TTGGAGGGAA	CCAGGAACCT	CCCTTTTATC	CCCGTATTGA	540
	CGGGAGATGG	GTACGACTTT	GGAAAGNTAT	CACATTAAAG	GATGTTAAAA	AGGCCGGGAA	600
	TCCGGCCAC	CCGGGTAGT	CTCATATTCA	AAGGCGNGGT	TCNNCN		

1024RP

	ATNNNNNGNN	CANNNGTGGG	GCGGAGCGAN	TAGTGGGTCA	GCANGGTGCG	CTCGGTGTgT	60
	GCGCAGCCGT	TGGcATGCTC	GCGGATCCTC	GCGTCCAATA	TACCAGAATG	CATCATGCTT	120
5	CGCTGGCTCT	ATATTGACCT	GGTGGCCATA	TATGAAAAGG	CGGTCCTTGA	AGTTTtGTAG	180
	AAACTCGTCT	GCCTGAGATG	GCGTAGCGAA	CCCAAGGAAG	CATTTATTGC	GGCATTtACG	240
	AGGCCTGGAA	ACACTAACTA	CCCCGTACTT	CTCATCTAGC	AGTGGAAGGG	GCACGTCTGC	300
	GGAAGGAAGC	GGCTCTGGCA	ACGTTTTCTC	CgCCGATAGA	GCATATGGGT	TATCCTtGTT	360
	GATGGACTTC	AACAGTTGTC	GAGCATATTC	TATCCTGGAG	GCATTTGACG	CTGGCAAATT	420
	TGACAGGTAG	ACACTGgATG	GCGGcGTTAG	tATCGAATCG	ACAGcAGtAT	AGtGACCAGc	480
10	ATTACACATAC	GACcGGACGC	ATgATaTTAC	TtCCTTGNGN	ACTTAANTTN	CCCAATCTTN	540
	NGCCAGATTN	ATTTTCG					

1024UP

15	GATCTAAATT	CCCACGCCGC	TGCGGCGGTT	TCTCTGCGAG	TCTTTGcCGT	GAAGCACGAC	60
	ATAATCGAGC	CCAAACACAG	CAAGATCGCA	GAGAATCAAG	CTTATGTAAG	TCTCACGTGA	120
	CTCGANGCGT	GCAGAACGGT	ACGGGTGTGC	ACTGCAGGTG	CCACGCCATG	TCTCACATGG	180
	TGTaACACG	GcGCGACCGC	GGTTCGGAAT	ATCAAACAAA	CATATgTTTG	CCGCAAAAGG	240
	GACTGGTTCC	CGCAGCTGcC	ACCCgCAGGG	GCACAgcGCG	GcAATGCAGA	GTCGCGTTAG	300
20	GGtGCCgTCG	CcCCGATGGG	GCAGtGTCCG	CGCC			

1025RP

25	GATCAGCCCCG	TTGCCGCCGC	CGCCGTTGTA	CTTCTGGTTC	TGGATGGACC	CCGGCGTGAT	60
	GGCGCTCTCG	TTGCCGTACT	CGTCGCTGCT	GCGCAAGTCG	CACCTTCAGCG	CCACTAGCAC	120
	CAGCTTCACG	CCCTCGCAGT	GGTCCGCAAT	TTCGCTCACC	CACCTGTCTT	TGACGTTCTC	180
	CAGCGAGTCC	CGCGAGTCCA	CCGAGAAACA	CAGCATAATC	GTGTGTGTGT	CCGAGTACGA	240
	CAGCGATCGC	AACCGGTCAA	ACTCCTCCTG	CCCAGCAGTG	TCCCACAGGC	TCAgCGTGAT	300
	GTGCTGGTTG	TCCACGAAGA	TGTCATGGAT	GTAGTTTTTCG	AATACCGTGG	GCTCGTACAC	360
	CTTCGGAAAG	TACCTCGCGT	GAACACGTTT	AACAGCGACg	TCTTCCCGCA	AGCACCGTCT	420
30	CCGAgGATGA	CGATCTTGCG	CTCGATAgGA	TGCTTCGACG	AcGAgCTCGA	CCACACAGAg	480
	GCATCTTTGTG	TTTGTAgAgC	TGGTGGTGGG	AGCTcCtCTG	ATGCCAGTCC	ACGCTACaAA	540
	TACAGCGTTT	GAgAcgAAAT	AcTAGCTGCT	ACTGTCTTtT	CTCTCTGACG	AgGTGCACGG	600
	cGCATCCCCG	TTATAACTGT	C				

1025UP

35	GATCCCCATG	AGAATGAGCG	CATCTTGGAT	ATGGCGGCGG	CACCCGGTGG	TAAAACCACC	60
	TATATATCTG	CCATGATGAA	GAACACTGGT	TGTGTCTTTG	CAAATGACGC	CAACAAGGCA	120
	AGAACGAAGT	CCTTGATTGC	GAATATTTCAC	CGTCTCGGCT	GCACGAATAC	AATTGTCTGC	180
40	AACtACGACG	CCCGCGAATT	CCCTAAGGTT	ATCGGTGGAT	TTGACAGAAT	TCTACTTGAT	240
	GCCCCTTGCT	CAGGTACAGG	TGTTATCGGC	AAAGATCAAT	CTGTGAAAGT	AAATCGTACT	300
	GAGAAGGACT	TTATGCAAAAT	TCCACACCTG	CAAAAGCAAC	TGATATTATC	TGCAATTGAC	360
	TCTGTTGACA	GCAACTCCaA	GCACGGcgGT	GTCATTGTCT	ACTCTACTTG	TTCCGTTGCG	420
	GtTGAAGAAA	ACgAgGCCGT	GGTCGAATAC	gCCTACGGAA	gAgACCTAaT	GTCAgCTGTT	480
45	GAAACCGGCT	gGcTATTGGT	AAGGAAGGCT	CaCTAgCTaC	GA		

1026RP

	GATCCAATTG	CTGGTCATAC	AtaCGCATTa	ACAGATTTTA	TTACTATGTA	TCCAACGTGA	60
	ATTGCTaTAT	GTACCTTATT	ATCGGTTTCA	TAAAgATGCT	TTAATTTCTT	ATTCTGAATC	120
5	GGAGTCgTtT	GACCGGCGCT	TAgAcTGGTT	ATGCCTCtTG	CCATCGTTTT	TCTCGAAAAT	180
	GAAAAATTCTA	GCTTCACGCT	CgGCTGCAGG	CTTAgtTCGTa	TCCTGCTCAT	TGTTAGTTCT	240
	CCTAtGACgG	TATCCTtGGGA	AgGTATCCCA	cTGGAAAtTTg	TgCgACCTCT	CAAGCTTtaa	300
	aCCATgCTCC	TTGGCaAGTA	cCTtAgGCTG	CCaAGAATCg	TaTgGATCAC	CGGCAAATag	360
	GGACAAAATG	ATCCTtCCCCA	TATCATcAGA	TGATtGtctCT	TtcttCCtACT	tCATATCCGG	420
10	AAAGATGGGC	AACAACtACC	ttCTTATTcG	cCAGcTTGAT	AGttGtcttAC	AGcTATCAAA	480
	AATATCCCga	TaGAGcTCTG	aGcTCTCT				

1026UP

15	GATCTAGCAG	ACTAGACTCT	CTATCGCATC	AAGTTTCTGT	TTTCAAGTCT	GGGTTTCTTG	60
	AGCAACCTGG	TGCCCCtATA	CCTGTGTCAG	ACGCACAGCG	AAGCAGACGT	CTATCGACGA	120
	TGTCGAACtT	ACAGACGAAA	AAACAGCGCC	CGCCAGCTAT	TCCAGAGGCA	GACGTATCAC	180
	TCCAGGCTAT	CAAGAAGCGG	CGCATGTCCG	CCAGGTCTTC	TACCTCCCGT	AAGTCGGGTT	240
	CTGCCCAGCG	TATTAGTGT	GTGCCACGGG	CCGCAGCTTC	AGAGTCATAT	GTGGTTCCAC	300
	CTGCTGGTGC	TCCTCTGAAG	AAAGAGTCTG	CGGATGACTT	ATTTCAAACG	ACTGCTTCCT	360
20	TTTATGAACG	TTACACTATT	TCCACACTGA	AAGAAATACC	GAAAAACATT	GCAGATGAGG	420
	ActCTGCcCG	ATATACCGTt	aACGAgGATA	GCaTCaCTAT	GGCTGAcCTT	TGCaAACCTC	480
	TATtCCCGAT	AGGTGAAGTa	tCTGATAATT	TCACCGGGCG	AAAGAAGcTG	CAAAAGCCAA	540
	GATGGAAGCT	CGGAAGAAGC	GCCGcGAAcT	CCGACAGATg	GcTaAgCGTc	AATC	

1027RP

	CATATCGACG	TACTCTGGCG	TTTGTtCTTC	TTCTGTCAGCA	GGAACGCCGT	CCGGCATAGG	60
	CTTACTGACT	TtCACAGACA	TGATTCTTTt	GCTGCAAGTA	AAGTATATTA	ATGGCGCTGT	120
	CAAAAATGGT	AATAGTACGG	AAAGAGCAAC	CTGAGAAGCG	TCCAGGGCCT	GCGATAAGCC	180
30	GTTTTTACCT	AGAGCAGTGG	ATACAGCTAA	TGTtGGAATC	AATGCAATGG	CTCGTGTcAG	240
	AATTCTCCGT	TTCCATGGGG	TTATAGTCCA	GCGTaTaTGG	CCTCCGCATA	CTATTTGTCC	300
	AGCTATGGTA	CAGACAATNC	CTGCCGATTG	GCCCCGAGATT	AAGAGTGCGA	GCATGAATAT	360
	GGTACCTGCC	GCTGGTGGCA	AAGTGTtGGA	TAATAGGTGG	tGTATCGtGT	ATAGATCCgC	420
	ATCGATGGcT	TCCGGGGTAT	CATACAGtGc	GcTA			

1027UP

	GATCAACGAG	TAAAAATGCC	AGGTGTtTCC	GTTAGGTACG	TGTCATGAGT	GCTAGTTTAT	60
	GGTTTGGTAC	GGCTGCTGGG	GGGCGCTTTC	TGGGAGGTTC	CAGCGCTCAT	ACGTTATGTG	120
	AAGATGCTTC	GATCGNGAGG	GTTGCGAGAA	GGAATGGGAA	TGTGCCAAGC	AGGACTTGGT	180
40	GATTGGTTCC	AGAACGTcGC	TGACTGTGTC	AAATATGAAA	TCATTGGGCG	AAACTTAGCT	240
	TGCTACGGAG	TCCAGCATGC	AGAACGTGCG	GCCGAAGCTA	GCTGAGGCTC	GATGAGACGG	300
	TGGCGGAAAT	CTTTCGATCC	CAGGCCAAAG	CAGACGTACC	TACCAGCTTT	TAATGTGCCC	360
	GCCTACTAAC	ATGATATACA	GAGACGTtCC	AGCTCAAGAG	TTcATCAACG	CTTACGCTTC	420
	TTTTCTTGCA	AAGACAAGGT	AAGTTG				

1028RP

	GATCATGCAA	ACGGAGAGAA	GGAGAAGAAG	TCTAAGAAAG	AGGGCACTAA	AGAGAAGAAA	60
	GCCaAAAAGC	AGGAGAAAAA	GGAAC TGAGA	AACATCATTG	AGGAGTCCGT	TGAGCAAAAT	120
5	AAGCTAGCAC	TGATAGAAAA	GGTGGAGGAA	GAAAGAGGCC	GCACGAAGGA	GAAAGACCTT	180
	GACATCaAGT	TCAGGTaTCG	GGAAGTTTCG	CCaGAAAGTT	TTGGCTTGAC	CACCCGTGAG	240
	ATATTTATGG	CTGACGACGC	TGCCTTGAAT	GAGTaTATTG	GCCTCAAGAA	ATTTGCACCA	300
	TATAGAGCAA	AGGAGTTGCG	CaACAAAGAT	AAAAGGAAGG	TCaTGAaGC	TAAGCGTCTA	360
	AAAGAATGGA	gGAAAAAgGT	GTTCaATAAC	GAAAA TGGGT	TGGCCGATGA	gGATgAgGcC	420
	CTTGATACCC	AgGCgGCTCC	TAAAAAGGAg	AAAAGCcgTT	CTAAGCaCAA	GACAAGTAag	480
10	TAATATTACC	GTCTTTATGT	aCgTTCTGCC	gTAATTATAT	TTTGTATaC	aTaTaTATTA	540
	ATTTAAACTT	T					

1028UP

15	GATCCGCGCC	CGGCACAGGC	CTGGCAGCAC	CCATCGCCGC	ATGCTGTGCC	TAAGATGTCT	60
	CAGAAATTACG	CGGCCGCTCA	GGCGGGCGCC	AGCCCCCCA	TGCTTTTGGG	CCAGGAAGCC	120
	TTCCACGAGC	TGGGCGACTC	GCCTGGCATG	TCAATGTACA	TGTCGCCCCA	GACCCATAGG	180
	CTCAAGGGCA	ATGGCGGGTA	CCTGTTGCCG	ACCGCTTCTA	TCTCCGACCC	TTCCGGTGCTC	240
	GGTGACACCG	GCCGCCCTCC	GTCTTCTCAG	TCATTGACAT	CGCACCCTCT	GCGTACCCCG	300
	AACTTTAAAC	TGAATGACTA	TGTGCATAAC	CTTTTCAGCC	CCTCACCAAG	AATAGaCCCG	360
20	CCAGGTaGCT	CTGGGAATAT	ATAgGGcCTC	GCACACATTT	AGCGCACAGT	ATACTAgCTA	420
	ATCCTACATT	CTCTGTCATA	gTAATGCCTA	TGTCAGCACA	CCTGCCGTAT	AATTTcATTA	480
	TTTCCTGTTT	CATAAATGCT	GAcATATGTc	ACGTGGCTGG	ATCAgCACgT	gATGGCAAAA	540
	TTCTTATGAA	TGAgCCTGTT	CATCTCGTCA	gACAATACAT	TATACACgCa	TCCaTCTCTC	600
	GGTATGAtAC	GGACTCTCTC	ACaCTGGA				

1029RP

	GATCGTAACA	CTCTGGAGAA	GTGGAAAGAG	CTAGTCCCTC	CGAGCTGTAA	ACGATGCATG	60
	GATGCGCTTC	ATCACAACCG	GTACGACACC	GCCGAGTTTC	CGGAGCACAC	GCTCGAGGAT	120
30	GTGGGAAAAG	GGGTTCCGCG	CGATGCAGTG	GTATACCATA	TTGCGCCACT	GTGGCAATTT	180
	CCGATGGGAC	TGGATCGGCG	CGTGCTGCAG	AGCTCAAAGA	AGGTTTGTGT	GCTATCTCTG	240
	AAGATCGATA	TGGTGGTGCA	GAGACCGTCG	CACATGCCGC	AGGACGTAGG	TGCATTTTMT	300
	CAGAGCTTGC	TTTATCATGA	CCTGCATGTC	AAGATCACGA	ACTTCCGCTT	CTTTTCTGCG	360
	CTGAAGCAAT	GGAACATCCA	GACGGTGCGG	AACGCTCTGA	GTAAAGAAAG	TTACTTACTT	420
	GGCGGGCCAA	ACGCGGGCAA	GTCGTcATTG	ATCAATGCCC	TGATGAAGAC	TGTTGTTTAC	480
35	GAAAGTCGGC	GTCTCGTATC	CTCAAAGCAG	TCCTCTGCGA	CCCCTGCCGA	CCTGCCTCCA	540
	AAAGCGCATT	TGGACATCCA	TTCTGCGGGT	GTGAGCACAA	TACCGAACTT	CACTCGCCAA	600
	CCCAGCAATA	CGATATAAAG	GGCAAGATCT	CCACGATTTC	CAGGCTACCG	CACAT	

1029UP

40	GATCTCGTGG	TGTTTTGCAA	CTTGGTGCGT	GACGCGATAT	CTCAGGCTTT	GCGTGCTGAG	60
	CATGATTATG	AGGTGAACAA	GATGCGCGCG	GCGCTCTCCT	TACTCCAAA	GCTGTATATT	120
	AGGGATAGAA	GGACCAATTT	CCTCTCCGCG	GCCAAGGGGG	ACGACTTCTG	GGTCATTGCG	180
	GATACCACGG	TGAAAAACTG	CGACATTACA	TCTCTCCTTC	TTTACTTTGA	TGAGTTCTAC	240
45	AGAGAACAGT	TGGATTTGTT	CCTGGCGCAG	GGCCGTGCTC	GGCACGAGGT	CCCCAGCGGC	300
	GATCTCGTAG	CGTGGGAAAA	CGATATAAAA	GTAAAGTTCT	TTAGCGAGAA	GTcATCGAAG	360
	CACGCTTCGT	GGGGTTCCCT	TGCCCTGCGG	AAATTTCGAAC	TCGTACTGCG	CGCTCCGTTT	420
	CTGTTGCCCT	TTCCGCGAGCG	GGTCGCCCTAC	TTTGAAACGC	TGATACACCA	CGACCGACGG	480
	CGGTTGCAGG	GACGCCACAC	AGGACCAGCC	TTGCGCCTGC	CCGACCTGTA	CTTCCCGTCG	540
	TCGCGGCGGC	AGCGTGCGAT	TATCTCCAGG	AACAACATCC	TGGAAGATGC	ATACSAGGCG	600
50	TATTATCCGC	TGGGCGAAGA	CTTTAAGGAC	CAGCTGGC			

1030RP

	GATCTGCTTG	TTGCGCAACG	CTTCCCAATC	GATgTCGCTG	AGAAAGGGGT	GGGCGCGGAC	60
	CTCTGCGCCG	TCGTTGACCG	CACCGAGGCG	GTGCTTGGGA	TTGCGGTTCA	AAAGGCCCTT	120
5	GACAAAGGAG	CGACCTTCCG	GCGATAGCAC	GTCCCTGGGG	AATTTGACCT	TGCCAAACGC	180
	AATCTTCTGG	TACATCTTCT	GGTTGTCTCT	TGCAAAAAAA	GGCGACCAGC	CACAGCACAT	240
	CTCGAATATC	AAGACGCCCC	GCGACCAGAA	GTCAACCATT	TTCTGTAGC	CGGTCTCATC	300
	GAGCAGCAGC	TCGGGCGCTA	GATACTCGGT	GGTACCGCAG	AACGTATTGG	TGCGATCCTT	360
	TAGGTCCGCT	TTTGAGAGGC	CGAAGTCACA	TAGTGCGATA	TTGCCGtTGG	CGTCTAAAAG	420
	GATGTTTTCT	GGCTTGAGGT	CGCGGTACAC	GATATCATT	TCGtGAAGGT	ATTCCAACGC	480
10	AAGCACCAAC	TCGGCAATGT	AGAACTTTGC	CCGCTcCTcC	GCGAACCAGC	CTTCTTTCTG	540
	AAGGTGCCAG	AAAAGCTcAC	CAcCGNTCAG	GAAGTcAGTC	ACCAAGTATA	AGTCTGTGGG	600
	CGTTTgAAAA	GAAAAATTCA	ACCAaCAATG	AAGGGACaG	ACTTTgAgCA	gTaCgAACgA	660
	GATGTTgCgC	TCACCAATAg	TATGtGCA				

1030UP

	GATCGATTCC	CTGAGCATGT	TTTTCCCTAT	GCTGCAGGTT	TTACATGGTG	ACATTGCGGA	60
	TGCCGAACTA	AAGAACCTTA	TGTCTTTGAA	ACTCTGGAAC	ACTTACGGCG	GAATTCTCTGA	120
	ACGCTGGCTA	TTCCTACTCT	TCTACAAGAA	ACAGCAAGTT	ACCGTAAATG	ATACCGTGCA	180
20	GCTCGAGTGG	TATCCTTTAC	GGCCAGAGTT	TGTAGAATCA	ACCTATTCCC	TTTACAGGGC	240
	CACATAAGAC	GCATTTTATC	TGAATATCGG	ACGAAGCATC	CTCCAGGCTC	TATCAACGCG	300
	CTTTAAACG	AAATGTGGGT	TTGCGGGCAT	ACAAAACGTC	ATAACGGGAG	AGCCACATGA	360
	TAGGATGGAA	TCGTTCTGTTT	TGGGCGAGAC	CTTAAATAT	CTCTATCTCC	TCTTTGACGT	420
	ATCCAATGAA	TTGCATACAC	AAAAACGCAC	TAACCAAATA	TTTAGCACTG	AGGCGCATcC	480
	ACTGTGGtTG	ACTGCCTCGA	TGAAGGCTCG	CTACGAAAAG	AACAAGTaCT	GTGAAAACGA	540
25	CgTGTATATA	CAGAACTTGC	GTcGcCTACA	gGAGCTTgAc	CAGCTGAAAA	GcCgtGCCAA	600
	TTCATTCACT	GcAGAGGgAG	cCATGATaCC	AGCTTCAGAT	TTCAAAACAG	AAGACTcCgA	660
	GGAGtCTTTG	AAGGACCGCG	TTGcAgcGCC	AtaCTaGAGG	CCTACACGTa	GAtaCgACaC	720
	gTTCGTGGaA	cATGCAGACC	TTTCGCGACA	A			

1031RP

	GATCTTAGTA	ATGATCACGT	GATTGGATTA	CCGCTTGTC	GTTTTGCTCT	CCGCAAAGCG	60
	ACATTTACAC	GGGAAAAGCG	GTGAACCTCC	GCCGAAACCC	AAATACTCGT	ACACTATGAC	120
	TATAGACGAC	AATGTGATG	ACGTGAGCAC	AGTTTAACTC	TAGTGTAACA	TCACGTGCAC	180
	ATACCTTCTC	TGCCACCCAC	ACATTAACCA	TTTATTTGTG	GTCACGTGAA	ATGAATCGAT	240
35	GCATTTTATA	ACTGCAGGTT	AGTTGAGCCA	TCTCGCCAAC	GATGTCTTGC	GACAGCATTC	300
	GGGGCACGGC	GCGTCATGAG	TGATTGGAAG	GAGGCACAGG	ACTCCACGGG	GCGTGTTTAC	360
	TACTATAATT	CGAAGGGGGA	AACGTATGAG	AATAAGCCCA	ACGACACGCC	AGTTGAGCTG	420
	GAACCGCGAC	TCGAAGAATG	TGGCTGGAAG	GTGGCAACGA	CGGAGGACGG	TAACGTGTAC	480
	TATTACAACA	GGGAAACTGG	CGAAAGCAGG	TGGGAGAAGC	CGGAGTTGGA	GCCAGCCGAG	540
	GAAGTGCCCC	GGGAAGARGA	CGAACGCGCG	CCGGAGGARG	AGAAGAACGA	GCCGTCCGCT	600
40	GCTGARGAGC	CCGGGGTCCG	GATCGAACTG	CTGCTCAACT	CAAAACC		

1031UP

	GATCANCGAN	CAGCACGGAC	AAATATAACA	GCAGCACGGG	CATTTGTCTA	GTCGGCTGGT	60
45	GYYYTGTC	CACCGTGACG	CTGGCGCTGG	GCTGGAGTGC	AAAAACCGGA	GCCACAAGCG	120
	TGCGCGTCCG	ACGGGGAAAG	CTGCGATCGT	GGCAGCAGCA	GAGAATGGGT	GCGGGAGTGC	180
	YAGAGCGGTG	CTGGGAGCGC	GCGGACGCGC	GCACGCTGCG	CGCGGCCGCG	CTGATGCTGG	240
	GCGCGGCATA	CCGAATCAAG	AAGGCACACG	CGCGGGCGCA	GCTGGCGATG	CAGGTGGCGC	300
	GGCTGCSCCG	CCTGCGTGAC	GTGCGGCTGC	GCCGCGGGCG	CGTCCCGCTG	CTGGCKGTAC	360
50	ACCCCGGTCT	GGTGAAC TTC	GCGTAC				

1032RP

	GATCTTTAAC	CTCTGGACTT	CAATCTTCTG	GGTaaaAGCA	CAAGTTTAGA	GATGTATGAT	60
	CCAAGCACCA	AACTACAGTC	TCGAGACAGC	AAAATAATCC	TACTTATATA	AACTGAACGT	120
5	TGCAATTCTT	TAAAAAATTT	ACTAACTTCG	ATTAATGCGG	CGCCGGTGAG	CGCCTCTGTT	180
	ATTAGCTGAG	TCATGCTGAG	GGTTTGGCTA	GGAAGCATCC	GCTCTTACTA	CGTATTTACC	240
	AAGGCACAGG	AAAATGTGGT	GGTATTCCTG	ATTTGCGCGG	CGTTTTGTAC	ATTACTCCAT	300
	AGCTCATGGT	CAGCAATCCC	GTTCAATGGA	CATTTGCTCA	ATCGTGAGTC	TTCCACTGGA	360
	CTTGAATTC	CGCAGGGATT	TTCGGCTCCT	GGCTCAACCA	GGTCGCCCCG	ACACCTACAG	420
	CCGAAAAAAT	TGCTGCTTGG	ACTAGGTCCG	CTGACGTGGA	CATGCGAGAT	GACTTTAAAG	480
10	TGATACATTA	AAACCAGGGC	TGTATGAACT	CAGCAAAGGT	CTCTTTTATA	CAGTGTGCAT	540
	ATAATATTTT	GGGCGCTTGC	AATTACCTCA	TGCCAGGTaC	TCGTAAGATT	CGCCGTCCGC	600
	GAGCGCTGTA	gGtATTCCCT	GCTAATTAAG	tTGTGcATgG	CCTTCTTGAT	AGAGAtaCCt	660
	TTGCATTTGA	CCGTtGTgAG	AtTCgGCTAT	GCATTCGTCA	CCAAAGTgGC	ATGAGAgACg	720
	ACCCGTTTgC	TTTCATAATT	CTGaCgATaC	AAGCTTCAGA	ACaATTGCTT	TCTTG	

1032UP

	GATCCCCAAA	ATAGACTACA	TCTGCCgcaa	gCAGCGCGCC	CTATCTGCAT	TTCTCTTCTt	60
	GGTGGTTGTC	ATGTGGGTCA	TCACGTTTCAC	CATTAGCATT	CTAAGGGTAG	TGGAACGGGT	120
	GAGTTCACTT	TCACCCAGAT	AAAAGTTAAC	AGGACAAGTG	AAAAAAAACG	GGGATAAAGG	180
20	CATCGATTAT	GTAATAAAGA	GCTATACGGC	AATAAACATT	TAAGTAACTA	CCATGGTATC	240
	TCCAGGGTAT	TACTAGGTTT	CCCTGAAGTT	TCGAATGTGC	CTTCGTTACC	CGGTGTTTAT	300
	GCAGGCTAGC	GCGACAAGAA	AAATGCGGTC	CCACCCATTC	CACGATTAGC	GGTGGCAAAA	360
	GTCCTAAAAG	TTAGGCAAAT	AAACACATAA	CCATCCCTCA	AAAAGCGCTT	GAGCAAGGCT	420
	ATCGGGGGTC	AGAGCAGGTG	TAATATACAT	TAGAAGTGAG	CGATGAACGA	TAAATTGCCG	480
	AGAGCAGATG	ACTTGGAAGC	CACCTTGGAA	TTTGTGGAGC	CCGGtATCGG	GCAGATCCtG	540
25	GGCCGGGATG	GGTCGCCCCA	TGCAGGGCGA	GTGCAGAAAC	TGCTGtCAGC	TGCgATGTaC	600
	ATGGATGTCT	ACACGGcTAT	CTaCAACTAC	TGCGTCAACA	AGTCGCGGtC	CACCGGGCAT	660
	TTTCAGtCgG	ACTCGGCGCA	ACGGCAGTCG	AACCAGtCAT	CGAtCCTGGt	CGGAGGGAGA	720

1033RP

	GATCTTGTCG	AACAGGTCGC	CCCCGTCCGC	CAGcTcCATC	GCGATCCATA	GGTACTCACG	60
	TGACACATTG	CAGTCCAGCA	CCCTCACACC	ATGTGGGTGC	CCCGCGCACC	GCGTCTGCAG	120
	CACCACCTCG	CGCGTCAGAT	CCTCGTCCGT	CATCCCTCCG	GCTTTGCAGC	GCTCGACGTG	180
35	CACGAACCTC	ACAGCCACTA	TCGTCTCGCG	GTCTGCGCGC	AGCGAGGCGG	TTTTGACGAA	240
	CGCGAACGTG	CCCTGCCCAA	TCGTCTCCCC	GAGCTCTAGT	TCCTTAATCT	CCGGCAGGCA	300
	TTCAGCCTGC	GACGACTCCA	TAGTAGCCCA	AAGTCGTTGG	ACGGCCTTCC	AGGTGGCCTC	360
	TAAGTGCTGG	TGATGGTTGG	TTGAAAAGTG	ATGCCCCAAC	AATAGTGTGA	AAAACGGCAA	420
	AGTGGGCCCT	ACGGGGGGAA	CAAAACAAGT	GCTAACTACA	CGGAAGCAGG	AATTAATTTG	480
	GGAAAGTGGC	TTGGAGCACG	GTATAGGAGT	ACCGGAGGTG	GATATGAgTG	TCgAACAGGT	540
40	GTCTGGTGcG	CACGcGTgCg	AAGAACAgtG	GGCACgGTTT	GAACGCAATG	TGGAggCGCG	600
	GA						

1033UP

	GATCCGCGTC	GTCGAAAAACA	GGTCCTTGgg	gTGCGATACC	GCCAGCACCT	TGCACGACGT	60
45	CCGCACCAGC	TGGTCGTGCG	TCTCCAGCGC	CGTGATGATG	TCCTCCACCG	AAAACACCTC	120
	CAGCACCCTG	TCAAACGGCG	CAAGCTTCAC	CAGTGTGTCC	AGCAGCGACA	GAAGCCCCTC	180
	ATAGTCCAGC	CCACTCATCT	CCCCTGCCGT	GAGCACCTTT	TTCAATCGCCG	AGAGTAGTGG	240
35	CCGTGCGTCT	GCGTCGAGAC	GCACCATCAC	CCCCAGGTGC	AGCTGCAGCA	TGTCCACCAG	300
	CCCGTTCAAC	GACCCACGCG	CGTGCTCCTC	GGGCGCCTCC	AGCACATCCG	CCAGCTGGCT	360
	CATTGGGtCC	TGGACTCCTC	ATTCTCCCAT	CGCGATATCG	ACTCTTCCGA	AGTAGCGTTT	420
50	TGGGGTTTGT	AAAAGTAAAG	GGCACTTTTC	CAGCACTTcG	CCACTTAAATG	TCGTGAGGCA	480
	CAGAACCGGG	GCCCTATGTT	GCCGGAGTCA	AGGCTTGCCCT	CGCTATATTC	CGACTTCAGG	540
	AAGCTGCAAG	AGCTCAATcC	AGATGGGTTT	CAGGCTAACG	tTCTAACATG	GaAAGACCAC	600
	CTGATGAACA	CAGTGTGGCG	GGACgAGCTT	CTGATAGAag	GGGGCGACAA	GCTGCTGGAg	660
	CGATTGAgCA	CCAAGGAGAC	GGG				

1034RP

	GATCATATTG	GTCTTGGCGC	CAGCATCGCC	TCTTCTGGTT	CTGAGCCAGT	AGTATGATAG	60
	CATGCCGCCG	ATGAACCTGG	CAATGGAGAA	ACTAGGTGAG	TTGTACATCC	CGACGCCAAG	120
5	GGCAACGCCT	GAGGGTAACC	ACTGCGCCCA	TCTGTACTTG	TCCTTATCAA	TACAAATCTT	180
	TACGAGGGAT	ATGACTGCAA	AGATGCTTCC	TAGGATGATC	GAACATTCCA	GTGCGTATGG	240
	TGGGAGTGCC	ATACCCATGA	CCAGACGTGC	GCAGTCTATC	CATACGAACG	CAGTTGGGAT	300
	CCGGAATTGC	TGGCTGGGGA	TTTCGTAGAC	CTTGTTGTAA	AAAAATGTACA	TTACGCTAGA	360
	CAACACGATC	GACCAGCTGG	CGCCGATAAT	CTGCGCGGTA	AACTGAGCCC	TAGGAGAAGC	420
	ACCGATTAAA	TGCCCTGTCT	TAAGATCTTG	CATTAAATCG	CCCGCTTGCT	GAGCGCCCGC	480
10	CTCAGCTATA	CTTCCGGCAA	CCAAATTTAT	TAATACAGCG	GCCTTGATGAT	CCCTGGGTAC	540
	ACAAGAGCGA	AAATGATTTG	AGCCAGCTTT	CCGATGCCGC	TGAACGGGTT	GAGATCGGTT	600
	TCCCCAAGAC	CCGGACGCCC	AAAATCGATA	GAAAGATGCT	ATAAGGAGAG	CCA	

1034UP

15	GATCACGCAC	AGCGGACACC	ACCAAAGCAG	AACCACGGTA	CCATATCTCT	CACACACGGC	60
	TCCCCTAGC	ACAGCGCCTC	CACCTGGCCG	CCCTGGGCTC	GGCCCCCGT	CGGCATAAGC	120
	ACGTCGGGG	ACCTATTTAG	TTCCAAAAAT	ATTGTTGTAA	CAGTAATAAT	ATCCTCATTG	180
	AGGACATTT	AGTTGTTACA	CTGAAAAGAA	CAGATACTAC	ACTTGATCTA	AGCCAAAAGG	240
	CAAAGAGATT	TGGTTTCTAA	AAGAAAGAGA	AACATGCCTG	TAAGAGGGAG	GGCCATCCCA	300
20	CATTTTTTCT	CTCCTTATAT	ACCAAGTAAA	ATTTAGAAAA	AGAAAACGACG	CGGCTGCTTG	360
	GTCGGCGCCG	TCTGCCTGGG	ACTCCAGAGG	GGCTCACGCA	GGAATCCTGC	ATCCAGGGCG	420
	ATGCGATCAA	GCTCTGAACG	CCCATAGCTG	CCGCCATACA	CGCCGCCATT	CGCGAGCTTT	480
	CGTTGAGTTC	GTAAGCCATG	AAATCACAGT	ATACGATTCT	CGAGCGCAAG	TTAAAGAGAG	540
	CCCCTGGGC	ATACTGCTAG	GGCTACAACT	GCGCACCAGC	TGCGAAAGCG	GAACCCAAT	600
25	AGTTAAGGGC	GGGTGGCAAT	AGTATCTGCT	GCAAGCAGCT	TCTAGAATTT	GGTAGATGAG	660
	TGCGTTTCATG						

1035I2

30	GATCCTTAAA	AGCTGGCCTC	CGCAGATAGA	CCTTCTGCGC	AGAGGCTGGA	AACCTCAACT	60
	AGCAAGTCGC	CACCCGAATC	AGATAAGCAC	TAGAGTCGTT	CCAGTAACAG	AGGAAGCGAT	120
	CAAGGAAGAT	AGTAGAAGAG	GACACTGCTG	CCAGGCTTGA	TCGGACAGAG	GGTTTAGCTT	180
	TCTGTTGAAT	TTCAGAGTTT	CGGCGCTTGG	TTTACTTCCG	TTCAATCTTT	CGTGTAAGA	240
	AGCTGTTTGC	AGGATGTCAT	CATTTGCCAG	TCGCCAGGTA	GGGTATTGCA	GGGCCGACGG	300
	AGTCGGTGAA	ACAGAGTCAG	GACCGAGAAC	GCCGATAGAC	AGGCGTTTGG	TTTGTAAGCG	360
35	GTGAGAGCTG	AAGCAGCTCA	AGAGGCCCGC	CTTGCTCAGG	TTGTGCGGTG	GCGGTAGAGC	420
	ACAGCAGGGC	ATCCCTCGTC	GGTGGAGCGT	NCGGNCAGNA	GCCCAGGCGC	NTCGAACAGG	480
	GGGTGTTTAT	NANGANCNAC	CGACCACAAA	CACGCTNTNA	TTGCGNACCG	CGGCCAGTTN	540
	CCTCANCTG	GTTCCCGNGA	CTTGTTTTNN	GAGCCNATCC	TTGGCNCTCC	GCCNNAGNAA	600
	AAAA						

1035I1

40	GATCTTTTGT	GGAACCAAGA	TCACCACACA	CGAATATGCG	ACGCCAAGCG	CCGGAACGAG	60
	CCACACATGG	GCCGCGGCGG	TAGCGGTGGG	CCCAAGCAAG	CGTATTTTGA	GGACCTGACG	120
	TGCTGTGGGT	GAGCAATCCA	GGGCATACTA	GGCCAGGTT	GTCAGCTGAA	AGTGTGTTAC	180
45	CCGGTATCGG	TATTACCCGG	CTCGTATAAA	TGTTACCCGG	ATATGGTGAA	GCCAAAATTT	240
	TCCACGGCGT	AAACAACAGG	AGAGTGTAAG	TGCATATGGC	GGCAGCAGCT	AGTGTAGCCT	300
	AGTGAGAAGA	AGGNCCTGTA	GCTAAGACTA	GCGAGGAGAC	GAGGATTGGG	CACTGATTGC	360
	GCGATGTCTA	TATTCTCTAC	GCCGCTGAAG	AGCAATGTNG	NATATNGGNN	CGCGCTNGTN	420
	GGCAACCNGN	GGNCCNGNGG	AGAGNACCGA	GNTTGNNTNA	NGGNGNGGCG	CNCANAACCA	480
50	ANNNNTNCCN	CAATCNCTTA	CNATCAAMNC	CAANTTNCCN	CNNNCANCCC	CNNNGNNNAT	540
	NNNNATTCCN	NCNNCNCN					

1035RP

	GATCTTAAAT	TGTTGCATG	TGACCTGAAA	GTTGCCCGT	AGACGCTGCA	TATTCAAGGT	60
	TTCCATTTCC	ACGGGACGTA	ACCTAATCCG	CTGCACTTTC	GACAAACGAC	TAATGTATCT	120
5	GTCTCTCGAC	TCTGGGTCAT	TGCGATCCCC	ACTCCACTGT	ACTTGTCTCTG	ACTGTAGTTG	180
	TTGAAGCTTG	AGGTTATCTG	CCTCGAATGA	CTGCAGTAGT	AGTGATTTTC	GTCTCCCAAT	240
	CGTTTCTATG	GACCGCCTGA	ACACCGAACG	TGCCTCCGCC	TGGAAGGACT	CGAAAAGCCG	300
	CCGCTCCTCT	GCAGAAGGCG	GGAAATAAGA	CATAACTTGC	TCATCGCGTA	GGTAAATCTA	360
	CGTCATTATC	CGCGTCCACC	ATGTTCCGGCT	GGGATAAAAT	GGTGTTCCT	CCAGGGGGCG	420
10	GGGAATACCA	CCCACCTCTC	AATCCTGCCC	CCGTTANTGA	ATNGNTTNT	TNATGGGGNN	480

1035UP

	GATCTGGCGT	ACGGTACCGA	TATATTTCAA	CTGAGGTATT	CGTTAGAACA	GCTACCTTCA	60
15	GTGGTTCCAC	GCTATATTGC	GTTGCAAATA	TGTTTGCGTA	CCCTTCTGGC	TTATCAGTGG	120
	CATTAAAGAG	CGCGCTAAATG	GGGACTATCT	CTTTTACTGG	GCCAGTGGTC	TCCAAGAAGG	180
	AAGCATTCTC	AATATATTTT	CCGTGGTTTT	TCAGGATGCC	ATAATCTGGT	ACACTCACAA	240
	ACAATTTATG	TTGCACTGGG	TGAGATGCAG	GGGTATTAGT	ATTTGGAATC	ATGTGGGTGA	300
	TTGTCCCGGA	TGGGGTGCGC	TTCACAACCG	CAGAGGAAAA	AATATCCCCA	GGGGGATATT	360
20	ATTNGTCGAA	GCAAGAAATCG	CTTCGAGTAG	GGATTGAAGA	TTTCTTCTTG	ATACTTAAAG	420
	CTGAATTGGT	TCANATGGGG	TCCAACGAAN	GANTAGGNTG	GATGGNCCCT	TNGGGGGGGG	480
	CC						

1036RP

	GATCATATTT	CAATGCAAGA	GCTCCATTAA	TAGGTATTGT	CTTGAGACAT	GCGCTCAAGT	60
	CATTAATGTC	ATGGGAAAAA	TGCACCGTTC	CACCTCCTAT	CTCCAAATGTA	TATTTTAGCA	120
	TTTCAAAATC	ATGTTTTCTG	TTTACTATAA	AGTGCAACCC	ATTGAGGTCT	GCGGCTTTCT	180
	TAGTAAAGCC	TCTAAAGGCG	TAATGCTGCT	CTTGATATACT	GCGTAGCTGT	GGGTCAAAAT	240
30	CGGTAACAGG	CTGTGGAAGA	AGAGCGGTAA	ATTGTTTCAG	AAATTCGAGA	TGCAATATTG	300
	GTATGCCTTT	AACAAGTGCA	AAACAAATAC	TTTTTCGGAA	TCTTGGTCAT	CTTCATGGGG	360
	TCTTAATAAT	ATGATGTGTA	GTGGGCCTCC	GAAAAAGAGG	TCACCACTCG	TATTCCTAAC	420
	CCTTAATTAC	CTCAAGCAAA	GCAGGGCTTC	TTGTAACAAA	GTTTCGGGAC	CTGGACTCCC	480
	CATGGGCCCC	TCCAATNTGA	TTGGNCGGAT	NTGNNCCCT	TCCNGATANA	GGNCTGGATG	540
35	GCCANCGGAA	NCCNTCCTAG	TGATNTCCCN	CCCCTTCAGT	GNNNCCNCTN	GAGGTTTGGA	600
	NGGCNNNTTT	TCCNNTNGCG	GGNNTNTCTG	GNAACCNCCC	CCNTNT		

1036UP

	GATCCCCTTT	GGTAACGAGA	GGTGTGGGCT	TGTATTACCC	GCACATCGTG	GGCTATTTGT	60
40	CATTACTCTG	GCCCCGTCCC	AGAGACCTAC	AGGTATAAAT	TCCCCATCAA	GTGCCACCAG	120
	AAAGATATGC	TATACTGGTT	TTGAGCTTGA	GCGACTGTTA	ACTGCAACCA	GCGGGACCGA	180
	ACGGGGTAGC	TTTTACTCAT	TTATTGAGGC	TAAATTGGAA	CCAGACATCA	CAATTCTGCT	240
	TCAGTGCGAA	ATGGACGCAT	ACAATCCAAA	ACGCCAGAAG	TATACTGAAA	TAAAATCCTC	300
	TGTGGACTTC	AATGTACGAA	ATGTCCGGCA	CCTGAGCAAA	CTGCTTAAAA	TATGGGAACA	360
	AACAGGGGTG	GTCCCATCCA	CTGATATCTT	GTAGGGGTCA	GAGACCCATC	AACCCATGTG	420
45	TTGAAACAGN	CGGCCCTTAT	GGGTGGTCAA	ATCGNAGGAA	AATCTTTTTA	GGGTCGNCGN	480
	NAGGCANAC	TTNTTTTANT	TATCCGAGTG	CAANATGGAA	ATAANCATCG	TNAATTTGGA	540
	AGGTATTTCC	CGGGGNGAAC	CANCGGNCNC	AANNNTTTTN	NGGGGTNGAA	AGANTCAAAT	600
	TAAATNGGCC	NGT					

1037RP

	GATCATCATT	ATTTCTGCG	TTCTGTCCGA	CGATTCTGAAG	GGCGGGGTCG	GTTTCTTGAA	60
	GGATTTTCAGG	CGTATGAATG	TTGCTCTCAC	CAGAGCAAAG	GCCAGTCTCT	GGATCCTGGG	120
5	TCACCATAAA	TCTTTATACA	AGAACAAAGCT	ATGGATGCAT	TTGATTTTCAG	ATGCGAAAGG	180
	GCGTGAAGTC	CTCCAAATGG	CATGTCCGGG	CTTCTTGAT	CCACGGAACA	GAGCCGCCCA	240
	GGATGCTCTT	CATAGGTTCA	AAAATCACCA	TAATTATATC	GAGAACGCAG	ATGATTATGG	300
	GCCTGAACCG	GTGATGACTA	AATCAAGAGG	ACGCAATAGA	TCATCCAGAA	AACGCAAACA	360
	TATGGAAGAT	AATCCAGATG	ATAACTACGA	TCCCGTTGCT	GAATTCAAGA	AGGAAAATCA	420
	AAGAGAAAGC	AACACAGGCA	CCGGTGGTTA	CCGTGCGGAT	ACATCTAACC	ACAGATTGGC	480
10	ACCTGCTAGG	AACGATAGCA	AGAAGGCCAA	GACGTGCTCC	AATGCCGCCG	GTATTTCCGA	540
	GGCTACTTCA	NARGATGGTG	ATCGAAGTCA	GAAAGGACAT	GGAACATAAGA	AGARTCTTCC	600
	ATATTC						

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25

1038RP

	GATCAAAAAA	AGAAATTACA	ATTGACTGTT	GCACCCACAC	ATTCAACGGT	TGCACCCACA	60
30	CATTATGAGA	TGCTTGATTT	GGCGCGAACT	GCGCTTTCCA	ACTACAGTCC	CGAGACTTTG	120
	GGTGCCCAACC	GAAGCAGACT	TCAACAGTGG	TGATAACCAT	AGTGTCGAAG	TCTAGCGAAT	180
	CTAAGGATAA	TACCAAGAGA	CAAAGCATAA	TCGTATGTGC	ACAGGATGGG	GCGAAGTGTG	240
	GTCTAGAGCT	GTCCGTGCGA	GCAGAATACG	GTGCGGGCAA	TGAGGACGCC	GCAGACGCCG	300
	AGCGTGTTGG	CAGCTCACGA	GGGCCGGAGC	GCTTCCAAGC	GGTCAGACAG	AGTACTAACG	360
	CATTGCAGAC	AAGATGGCTC	ACGAAAACGT	TTGGGGTCTC	CCACCCNNAN	AAACTACGGT	420
35	AAGGGGTCCC	CCAGTGCGCG	TGTGCGCTTC	GNCTCTTGTT	GGTCANAAAG	TACGGGTGTTG	480
	ACATCTTTCC	CAATGGTTCA	NAGAGAAGGC	CACGACATG	GTTCCCAAAT	CCCCTAAGAG	540
	GGGGGGGGCC	CTTCCCCTCT	TNCNAAATCC	GGGGGGGGTT	TGGTTTCNCG	GAGGTTTTNT	600
	TATTTTTTCA	NACCCCNMTT	TTTANTTTTNA	NNCNCGGTNC	CCAGNNGTTT	GGN	

40 1038UP

	GATCGGTTCT	CGGGCTTCTT	TAGCTGCCCG	TTATTCAACG	AGTCATCGAC	TGAGAAAGAG	60
	ATAAAAGCGG	TCGATAGCGA	AAATAAGAAA	AATCTCCAAA	ATGATATGTG	GCGCCTTTAC	120
	CAGCTGGGTA	AGTCGCTGAC	CAACCCCAT	CACCCGTACC	ACAAATTCTC	TACTGGAAAC	180
45	TTTGAGACTT	TATGGAGCAT	TCCGAGATCG	AAAGGCGTCA	ACGTCCGTGA	TGAGCTGCTG	240
	AAGTTCTACA	AACGGTCATA	TTCTGCAAA	CTCATGAAAT	TAGTGATCTT	GGGCCGCGAA	300
	GATCTAGATA	CCTTGGGTCA	GTGGGCATAT	GAGCTGTTCA	AAGACGTCCC	TAACCATGGG	360
	ACCAAAGTGG	CTGAGTATCA	CGGCCAGGGA	TTACCGGCCG	AGACCTGATG	AAGGTAATTA	420
	AAGTGAAGCG	GNTAAAATCT	TAAGAGTGTG	GAATTCAATC	GNGGGGCAGA	TTTGTTTAGN	480
	ATGGAGGCAG	CAGTCGTATG	NGGATTTATC	GCCAGAGGAA	GGTCCTCCCG	NTCTGGAGAA	540
50	AAAGTGAAN	CGNCNNCCGT	NGGNNTCCCC	TTNAAAGGAA	AATNCCCCNC	AANNNGGCTTN	600
	ANNAAGGNT						

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1039RP

	GATCATTCT	CTTCAATCCC	ATTGACGTGA	ATGATGAACC	GCATTATCTT	TTTAACAGCG	60
	ACAACATGCC	ACGGTATATA	ATTGTCCTTA	CCTCGTGATA	TGCAGAACCA	GGTGTMTAGA	120
5	CTGGCAATAT	CCCTAAACTG	GTGTAATATG	GTCTTCAAAA	GTTTTGTGCT	GTCCGAATGA	180
	GGGCAATTTA	GTAAATTAAC	CTCGAATTTG	TCTAAAGTAT	CGCCACCGGC	ACATCTTTTA	240
	AACCGCACCA	GCGCGCCGCT	TTTTATTGCG	CATCGGCGCT	GTGAATTAGC	AAGTTGTAAA	300
	GGGCTACTGA	ATACGACGCC	ATGCAGCTCT	TCATCGATAT	TCACAACCTC	GTAATCATCC	360
	AATTGGTTAG	CTTGGATTTT	GGNNGGCATA	TCTCTTATCC	CTAAAAAGTG	GGTTGGATGA	420
	TGGATAAAAC	TGATCTTCAT	CATATAGAGA	AATTTGGGCT	CGCCCCAACG	CAGACACAGN	480
10	CAATGTAGTT	TCTTGTGGCA	NAGTTNGCTN	CGCAGGNATT	ACTCGCANCC	GGGGAGGTNT	540
	CACCCCGGAG	ACAAAAATTC	CCCCTTTTCT	NTGGAAATCG	TNGTAGNNCC	TANCAAGGAT	600
	GGGTCAAGGA	CCTGGTTGCC	ATTCCANTTT	ACCATTTTIN	CCC		

1039UP

	GATCCTTCCA	ATAACGGCTA	AACATCCATG	TGCTGGTTTT	AACTATGAGG	GAGTTGGAGT	60
	AATTTGCGCG	TCTCGCAAAG	TAAATTGACA	GAACCCTC	AGATCGGTAA	CGAAACAGCT	120
	GAACGACGGA	GATTAAAAGG	AAGAGGCAAA	TAAGCTATAG	ATAAGATCGA	TAAATATTGA	180
	GGGGGGGATG	GATATATTAG	AACTAGCTT	TAGACTTGAA	GATGTGCTTT	CACGTATTTA	240
20	TAGAGTTGAA	AAGGTGGTGC	GAGTCAATTA	TCAACAGTTC	GTACCGAGGA	CTCCAGATGA	300
	TCAATGGTGT	ATCCAATCCG	AGCTTCTTAA	TCCGCAAGAA	GGATCCGAAA	GCGCTGGTGG	360
	CGCTTTTTTC	GCGGGAACCTC	TGGTGCTTTT	AGCATCAATG	ACCAGGACTT	ACCCATTCCC	420
	GGGTTTGGAA	GGGATAGGCG	AACCCCCNC	CTCGGAGAAG	AAGGGCCACT	TTACGGCAGG	480
	GTTTTCCAAG	GCNAACCTGC	AACGCCNMTG	GATCTTTTTTA	AAGCNTGGGG	GGATGNTCAA	540
	TAANAATTCN	GAGGCGNAGA	ACCTTTGGCA	ATTGGAAAAAN	NNNTTTCCCC	GNAAGAAAGC	600
25	NNAGGGANCC	CCCCGGGNCN	NATTTTTTGA	ATGNC			

1040RP

	GATCCAGTGT	ACCAGGTAGC	GTCAGGCACT	TCTAGCGCAA	GGGCCGCCGT	AAACCTTGGC	60
30	CTCTCACAGC	ATTTGGGATG	AGTATGGGCC	ATCTTTAGGG	CACGTGAGTG	ATCATGATGG	120
	GTACAAAAAG	AAATGATTTT	GCCCAGGATC	GAACCTGGGA	CGTTCTGCGT	GTTAAGCAGA	180
	TGCCATAACC	GACTAGACCA	CGAAACCACT	TTCTGCAGGC	TCTTATTGGA	CAGGTGATGT	240
	TAGCGCAGAA	GAACATGAAC	GTGATAATAA	TTCAGAAACC	TCTTATGCTA	AAGTGAATTA	300
	CTATTGCTTA	ATAACCTGAA	GGGAATAGGC	ATTGCCAGTA	TTGAAAATCG	GGCTTTGGGT	360
	TTATTGGCTA	ATTATATTAT	TNNCANTATA	TATATATACC	AACAAGGTGA	AGAAATGGNTG	420
35	TCGNTGGTTT	GGGGGCGATA	CCCNAGAACC	AAAGTAGAAG	TTGACAAGTT	GGTGGNAGNG	480
	GTTCAATTCA	GNACTTCATG	GCAACNTTTA	CNATNNTTIN	NTNAGAACCC	CCNATTANTC	540
	TTTNNCTTCG	GGGGGTCTCN	NCNAACCGGA	AACAATNTIN	CNGAACTGAG	TTNGGGGGAN	600
	GTTCNCTCGGT	NTTTTCNNCC	TTTGGGTCCA	AATTGGGCCG	GAANCCCT		

1040UP

	GATCAGCAAC	CTTCTCCGCC	GTCTGTGTCC	TCGCTTTACC	GAGGATACGA	AAATAGCCGC	60
	GGCTCTGTTT	CAAATGGCGA	TGCTGACGAG	CAAACCACGT	CTTCTGATGC	AAGCAGTACT	120
	AGTTACATTA	TTCTAGAGAT	GGAGGCAATG	CGGACAGCTC	TGCGTCAGTA	TTTGAGGGCA	180
45	ATCTGCCAAG	ATGCAGAGGT	ATCCGCCAGT	CTGTCCCTAA	CGAAATTCCCT	ATTCAAGAGG	240
	ACGATAGACA	AGCGTGCTTT	TACGCCAGAA	ATCCTGGAAG	ATATTGAATC	TCGGGAGCTT	300
	ATGGATGTAT	ACAACCTCGA	AAATCAAGTT	AAATTCCTAA	AAATGGCGGT	TTGGATAGAA	360
	CTGTGAAGCT	ACAAGTCTTC	GCTAAAGTCC	CTAAAAGAAA	AAATCTTGCA	AGATATGACT	420
	ACATTATGAG	GTTTTCCNCC	AATTTAAGGA	GAGGAGGATC	CCAGNGACNA	TTTAGCTCTC	480
	AGAGATTCTT	GGNTGGGGAA	AATTTTTTAG	GTACCNATNC	AGGTTCCTCG	AATNAATGTN	540
50	NATNTTTTAC	ANTCGCGCNG	AAATATGCTC	ANAGNNNAAG	TTTGGGCACC	CCCCCNCCCT	600
	ATGANGTTTT	GTC					

1041RP

	GATCCTCCAC	CAGAGCGTCG	GGGTCCCAT	CCTTCTGTTC	ACGCAGTGGC	GCGTTCTTGT	60
	AGAAAACGCC	CAACAGTTGT	TTGTAGGTGA	ACTCGTCGCG	GAATTTCTGG	GCGCGAATTC	120
5	GCTCCAGCTC	CTCTTCGGAA	AGCTTTTCAC	GGCGCCACCA	GCTTCTCATC	CGGTTCAACC	180
	AGCGCTTTTC	GTCGAGTGCC	CGCTGTTCCG	CCGCTTCTGC	CGCAGCAATA	TCTCGGCGCA	240
	GATGCCGTAC	GCGCTCCGCC	ACTTCATGAC	GGATGACGCC	CTGCCGCTCT	TCTGTGAAGA	300
	ACTCGTAGTC	CAACCCAGCT	TCCAACAAAC	AACTGCTTCA	CGTATCGCCG	CCATACTTTC	360
	ATCGACGTCT	CGAGATAGTC	GGCCGGAGGA	GGGGCAACAA	ACAACGCGAG	CCGCCGCGGT	420
	TTGGGGCATG	TGTCANGTNG	GCTGCGCCTG	GGCCTTCACC	AACGACGAAT	AATGTTGGAT	480
10	TTNGCCCTNG	TCCCNTGGCG	GNTNCAATCA	GAA TGCCGGN	TCAACCNAAN	CAAAAGGGAC	540
	AATNNGCCGG	AACCAAGGCG	GTTCCANGCC	GAAAGTGTTT	ATTNNCCNAC	TNTTCCGGTA	600
	NAATTTTTTNT	TTNTCNCTGG	GGNTGTGNNT	NACCNCACC	CCNAAATAA		

1041UP

	GATCTGCTTC	CTGAAAAATG	GGGTCTCTGT	CTTACTGGTA	CTCTCAAATA	GCTACGTCTA	60
	GGTACAGGGC	CATTTCCGGA	TCCCAGCCAC	GGGTCCACTG	CAGGAGGTAC	AACAGGATAT	120
	CGCACGTCTC	GCCCTGCGCA	CGTCACTTGG	AGCCTCCCGT	TCTCGTCTTG	ACGTCTCAAT	180
	AAGGTACGCC	GTTTCTCTTC	GCCGATGGAC	TGCGCTAACT	GTATGGCCTG	GCTACAAGTC	240
20	TGTTGGTTTC	GAGCAGCCCA	CTTCTTTATC	CACCCCTCAAG	GTTTACCACA	ATCCAGCAAT	300
	TTTGGGTCTT	GGCACAGCCG	GATATCATGT	GACTTAAATTA	CGTCAACGTT	CAAGAGTTGG	360
	GGGCGGCGGC	AGCAAAATTA	ACGGGGGCGN	CGGTCTGTCC	CCCCGATCGG	GGGGGGGGGA	420
	GGGNATTANC	ANTCCANTGC	CGGCCAAATC	TTNGTTTACA	NAAAGCAAGC	ANANTCATAG	480
	TGATTTGGGG	GAANANCCCA	AGGTTNNGGC	CNCCANGGNT	CAAANTCNCC	CNTTNNTTTT	540
	TGGGTTCCCG	NCGGAAAANN	CCATTNCNCG	AGGGGCCNAG	GNCCGGGAAT	TTTCCCCNGT	600
25	TNNAGGGGAG	TCNNTTNNGG	GGGGANNNG	CCANAGGAAG	GNGGT		

1042RP

	GATCCGTGCT	GCGGACAACC	GCCAGAGCTC	GCCTACAGCC	CGTATATATA	CGCCGGCTGC	60
30	CGGCCGTGCC	CATGCGATTT	GTCCACCTC	GCTCTGCTTC	GTCCCGCCTG	CCGTTGCTCC	120
	ATGGGACCTT	TCATTTAGTG	TCTCGCGAAC	GTTTCGAATG	TACCCTATCG	TGGTACCACG	180
	TTGCCGTGCC	TGCCGTTACT	ACATCTTCTA	GCGCGGACTG	AGTCACATGT	CTCGCCGCGC	240
	ACTCCTTTTC	TGTAGATAGT	CAGACGACAG	ATAGTCGATA	GTTGGAGATT	TGGGCAACAA	300
	TAGCGGTGGC	CATTCAGCCT	GCCCATTTGT	CCCATGTTCAT	TGGGAGGCTG	GGNCCCAACC	360
	ACGGGAATCT	TTNCCCGTTT	AANCCTNANA	GNCCCNNGGA	ATGNAAAACN	CTTCTTTTNG	420
35	NCNGCNGCAA	ACGGGCCTNN	AGGNATTTTC	TTTGNCGATT	NGGGANGCAC	TGAGAATCCA	480
	AGTNGGAAGG	GGGCTNNAAA	AATNGCTCCG	GGCCANNCTT	NCCCAAAGGT	TTNAAAANCN	540
	GCNTAAATNA	GCCNCAGAAG	AACCNCGGGA	GGAANCANAC	ANAAANTNGG	CCCNCTTGA	600
	AGGAAAGGGG	CNGNNNTGGG	GNCGAANCCC	CNGNAACGNT	NTTCTTAA	GGANAACAAA	660
	NGGTNCAAAA	AAAATGGGGG	NC				

1042UP

	GATCGCGTCC	TCGAGCGACT	TGTGAGGGTG	AAGCTCGATA	CGGTGATGGT	GGTGGTGATG	60
	GTGGTGGTGA	TGGTGGTGTG	CTCTGCCCTG	CGGTATGACC	TGGGCTGTTG	GCGTTGGGCT	120
45	GTTGCTGCCG	ACAGCAGCAC	CTGTATCCGC	AATGCCCGAT	ATGCTAGAAT	GGAGCAAATT	180
	AATGGACTGG	TCTGCATTCT	TGCAGAGCGG	AGCCTCGCAC	ATGCTGGATA	TGCTTACGAG	240
	ATCGCCGGAG	GATCTTTATG	TCTGTTTTCG	TATTCACCAC	GTGGTCTGTG	CAGTGCTGTT	300
	GTTTCATGAC	CAGCCCGTAT	CTTCANAGGA	GTCGTAGTTC	ACGCATTGTT	GGGCAAGGCC	360
	AGTCGAAGGA	GGCCATCCTC	CACGGTCCGG	GAGTCCCCGG	GGGACGTTTC	CACAAGCCAA	420
	GGTACCTAGA	AGATGAATCT	TTTTTGANTC	ANCGTTGGG	CCNCTNGGCA	ATTNAAAGTC	480
50	GNAANTGNTG	AACTTCGGAA	AGTTGGAAT	TGNCNAGG	NCTTCTTCCC	CCCNCCNCT	540
	TNGGNAAGCA	AAAANAAANA	ATTAATTGGN	CCCCCCCCCG	CAAATTTGNG	GTCNGAGAAA	600
	TTTCCAAACC	TTGGGTTAAT	AGTAAGGNCC	CCGNTGNTG	GGCCCNCCC		

1043RP

	GGATCGGCGA	TGGCGATAAA	AGAATTGCTC	CCTGATTGAT	TGTTGTTCGA	AGGAGATGCA	60
	GATGGATTGT	CCAGAAAAAC	CGGTTTTAAG	ACTCGTTCAT	CAAACCTGTT	AAACCAATTGC	120
5	CCATCGGCTT	GCAGTATATT	GCCCAAGGTT	TCCGCGATAT	TTCTTCTGTC	TAATGATAAT	180
	CGCCCCACAG	GCTGGTCAGC	GCCTGATGCA	GAGCGCGAAG	AGGGTCGGTC	TATCATAGGA	240
	GGAAAGCTTT	CTTGATCCGG	GGAGCCGGTC	GGGCTGTCCG	TTAAAAATGG	AGGTGCGTCT	300
	AATGAAGACA	TTAGCTGGAC	AGGTCTAGGG	GCTTCAATAT	CAAATTCATC	ATCCGTTTCC	360
	TCCTGTTCTT	CTACGCACCC	TGTCTTTATG	TTTAAGATCT	CAAGCATACC	CGCAGGaGta	420
	CCtCCAAaTa	TgATAACGGt	GaGAACCACA	AcTaCCAGcA	CAGtGGCCAG	AaGAGGGGAA	480
10	CTTGGANCTC	GCCCNNNNGA	CCCNtagCCA	GGNCACTCC	AANAGNAACC	CCNAANCCCG	540
	NCCNNNNNGG	NAACNNCCTN	NNTTTNGNNT	TGGATNTCCC	CNANNANTNN	AAAACCCCCC	600
	CCCCGGGNTN	TTNNNGGGNC	CCNNNNNCCC	NNNAANGGGN	AAAANNNC		

1043UP

15	GATCAGATTG	TCTTGTGATG	GAGAAGCTGG	CGCATCAGTA	GAGTGCAGAG	AAGACCCATG	60
	CGGAACAAC	GTACCACCCA	GGGACTGCCG	TCTTCCC	ATGTTGGGAA	AAACAACAGC	120
	ACGGcCTGAG	TCACTTACAG	TCCGAGTGGG	TTGCGAGCGC	GACAGATTAA	AAGAAAAGCG	180
	CTCGGGGTTT	GTGAACAGNT	CAGACCAAAA	CCCAGGTCTT	GGCTCGCGGA	ATTCTTCGCT	240
	TACCTTACAA	TNCAACTTAG	TGTGTTCCGT	GTCCNAAATA	TaCTCCAAAA	TCTTGATCGG	300
20	cGCACCTCTG	TGGTTCATgT	CCTGCACAAG	TTGACCACTG	TATTCCaGTT	TGaCATCAGA	360
	GGGcGAAATC	ATCAgtGTGT	GGCgttCACA	GAGCAAATaA	aCTCCTtTtAC	TTCTtgcAC	

1044I2

25	GATCTACAGA	ATGCAGGAGA	CGCTGCTTGA	CACAACACAA	ACGGCTGAGA	CGGCAGGCGC	60
	GGCCGAGCGC	GTGCAGGAGG	CGGACCCGGA	CGGACAGGGG	GCGGGCGTCC	ACTCGGGCGA	120
	GCTGCTGGAG	GTTGTGGAGC	GCCACTACGG	GGCGCGGCGG	TGCGCGCTGG	GGACGATACG	180
	GTACGAGGCC	GCGCGCGCGG	GCCGGCTGAC	GGGCGGCGCG	GCGCGCGCCC	TGCCGTTTCC	240
	GTACGAGGTG	GGGCAGCAGA	CCGTGCCGGT	GCCGCTTGCT	GCCGCGCATG	GGCACGGCAG	300
30	CGATCCAACA	GGCTCGTGAC	GGTGGAGCTG	AGCGCGGAGG	ACCTTGAGAG	CGCGCTCGCG	360
	ACGGGCGAGA	ACGCACGGGT	TGCGCAACCC	GGAGCTTTTG	TGGGTAGNCG	TGTTCAACTN	420
	AGANTCGGGA	CCCNNTTnCT	NNTGCTNNNG	NACTNNNGNG	TGNTNNACGN	NGAGCTGAGN	480
	TGCAGGNCAN	GNNAGNNNNC	CNNNCNNCGN	ACGCCCNCCA	ACCCNNNGAN	CCCNNTTTTT	540
	TAGNNNGNTT	TAANNCCNNC	CCCNNTNTNN	GNGNGGGNNT	CCCCCTTGNT	NTNNNNNNNN	600
35	ANTTNTCATT	TTCCCCCCTT	CGNAGGNTTN	NT			

1044I1

40	GATCTCCGAC	TGCCGCCGTC	TGTACCCGTC	ATCGCCCTCT	GTAGTCGCCG	TCATGCTCAT	60
	CCTACCCAGC	CGCACCAACC	AATGCTCGAT	GCAAGCTCAA	TGCTCGCAGC	CGGCGACTGC	120
	TGTATACGTG	CTGGCTTAGG	GTGGGGACGT	CCCTTCACGG	CCCGGCCGCC	ATTGGAGTCC	180
	AGCAAGCGGG	GAATGCTGTT	GTGACTGTAA	CACCCATACA	TTGCAGGCCG	TACATTTCAA	240
	CGATGGGACG	CGAGTGCGTG	GGGAGCTGGA	CGGAGACCGA	ACGGGGGGAG	CCAGGCGGGC	300
	GGGCGGCAAT	CCGCAGGCCG	ACCCAGCGCG	CGACCACGCG	GGCGCTAGGC	CGAGGGCAGC	360
	AGGCCAGAGC	CGCGGGCGCG	GTTTPTCATG	AAAAATATAG	TGGCTACAAG	AGGGATAGGT	420
45	TGGATATACC	AGAACTCACT	CGTAAGAGAT	AATTAAGCAG	ACGAAATGGT	TGTTTGGAGG	480
	ACGTTGGTAT	CGCGAATCAC	AATAATTTGA	CAAAAGGTTT	TTGANTCGGG	GAGGTCGNTG	540
	TTGTTGNGGG	NGCNAGACCG	CCNTATTANA	NGAAGNGANG	GNAACNCAAG	ANNGGGGCAN	600
	GGGGTC						

1044RP

	GATCGCGTGC	CTAGTGCAC	CTCATGCACC	GCTTGGAAC	GCCGCCCCAC	CCATGTCAGC	60
	ATCTTTATCT	TGCTCGACCC	TGTGACCGAG	TAAACAAGCA	CCGTATCCA	CGTCTCAGCC	120
5	TTCCACATG	GATGTTCAAA	CAGCCAGGCA	TGGTCAATGC	CTCGTTTGTC	AACTATCTTG	180
	TCGTAAATGTT	GTAAGTTGCT	CGAATGAAGT	AGCAGTAAGC	ACTTGGTCGT	GCGGACGAAT	240
	ATTGTCCGCA	GCGTTTCGGA	GTACAGCAGC	TCTTCTACAC	CATAATTCGG	GCCAAGCAAT	300
	TCTGTATATG	TCTGAACTAG	ACGCAGGCCT	CTCTCGTCCA	TACTGGAGTA	CACCAAGAAAG	360
	TCCCTATTAT	TTCGGACCAC	CACAAGTTGT	CGAACGGCAT	CAACCACAGG	GACACACTGA	420
	GCACCTTGGG	ACGGAATGGG	ATTTACTAGC	TCAGCCCTAA	GCATCTTATG	ATGAGGGCTG	480
10	CCCTTAGCTT	GCTGAGTGCT	TCGGGCTGCC	TGCTTGTGGT	TGGTGGGTCC	TTTCTTAGAA	540
	CGATTGTTCA	AAACCATGAT	GATGGGGTTT	GGTCCGGCCN	GGTGATTGTA	AGATTTAAC	600
	CGGTNCCAAG	GAATTGACCN	TGGGGG				

1044UP

	GATCTCCTTG	ACCGCGCGTG	GCGCTCTCTT	CTTGAAGGTG	ACACCGTGCA	ACTGCTACTG	60
	TTAGTATCGG	TCCGGTCTGC	GGCTCCGCTC	CACGCAGCAG	GGAGCCCTGC	TCCGCACTCA	120
	ACATACCCTC	TTGTGCAAGT	TAATGGTGTA	CTCGCGAGTA	ACAACGTCCT	TCAAACCAGC	180
	CATTTCCGGCT	GCTTAATTAT	CTCTTACGAG	TGAGTTCTGG	TATATCCAAC	CTATCCCTCT	240
20	TGTAGCCACT	ATATTTTTTCA	TGAAAAACCG	CGCCCGCGGC	TCTGGCCTGC	TGCCCTCGGC	300
	CTAGCGCCCG	CGTGGTCCGC	CGCTGGGTCC	GGCTGCGGAT	TGCCCGCCGC	CGCTGGNCTC	360
	CCCCNNCGG	CTCCNNCCAG	NTCCCCACGA	NTCGNNGCCA	TNGNNGAAAT	GTACGGNTTG	420
	AANGNTTGNT	GTNAAAGGCA	NAAAAGAAATC	CCCNNTNGGT	GGNTTNNAAN	NNNGGCNNNN	480
	NNNNAGGGAN	GNCCACCNN	ANNNAGAANT	TTAANAAGNG	NNNNTNNANA	TNNNTNGATN	540
	NANAA						

1045RP

	GTGGATCCGT	AATGTGGgTT	TGTAGGCCAG	AGGGGATTCTG	ACGGTGGCTG	GGGGCCATTC	60
	TGCCCCGTAA	TTAGATGCCA	CCCAATTGTT	TTCACATCCC	AGGCGAAGGT	TGCATACCG	120
30	CCCACATACT	TGGGTAATTG	ATAATGCCGC	CACATGACGG	GATACTAAAC	AAAGCAAAGT	180
	GTCACATtCT	TATTTTCTGT	TGTGGTCAAA	AATCGGGGGG	TAGGCGATCA	ATTGTCATAT	240
	ACAACACGAA	AGGGGATCGG	AGATTTCTAG	GTCACAGGAC	AGTTTGGGgt	TttTATTGGG	300
	TGTCTTTGTG	AAACCATAGG	CACTTGACAT	AGGAGCCCTC	TTTAGAGTAC	AATAAGCAAC	360
	TGGCAGCAGC	CCTACAGCTT	GGGcTAAACT	TCTcCatTAT	GTgAAACGGG	AAAGACGAcA	420
	ATgcCTCTgA	ACGCTTTCAC	GCCACTTTTg	GtGGcCCAat	tGcATNGNTT	CCGNAANTAN	480
35	NNTTTTNTNN	TNGGGNTTTT	TTGGNNNAAA	AAAACCNNA	AAAAAGGGGG	GGGGGGNTNA	540
	AAACCAANGNA	TNNTTTTNTT	NGGGNNGGGG	GGGGCCCCCT	TTTNTNAAAN	CCNNNCCCCC	600
	CNNNNAAAN	GGNNNTTNNN	GGNNNAAAAA	TTNNNNNTNN	NTTTTNGGN	NNCCNNNNNT	660
	NCCCCCCCNA	NNGNCCNNNC	CCNNNNNTTT	TTTTNTNNNA	NNAAANCNCC	CNNGGGNNGG	720
	CCC						

1045UP

	GATCTAATAA	CCACCCGTG	TATATTTGGG	CGGTAACTA	TATATGGGAA	TCATATAAGT	60
	GCTTAAAAAC	ACCTCACCCG	CAAGGGGGT	ATCTATAAAC	AAGCCATAGT	GTGtGTATCT	120
	TTGcCTACAT	AGCATCATGA	CTATGTTGCG	CACGCGTCAT	TTGCACTGTT	TTAGCATGTA	180
45	ACTGGCAGAG	CCAGCAACGA	ACAGAGCTAA	TTTTGGAgGC	TTACCATACT	GtTGTCGCTG	240
	GATGTTGAAG	CaCGCTGT	GTGGATAAGT	TTAGAACCCG	TCGCCAGCAC	ATTCATACCC	300
	TGAAACTACC	AGTTCAGGG	GACATGTTCT	TCGtGGCTTT	GACAGAATTA	TTATTGTAGT	360
	CCAGTTAGAT	GTaCTACCA	TGTTGcGCTA	ACATAATCAC	CaTGTcCatC	TcTGGAAATCA	420
	CGTgTcGCCA	AGCATATTaA	TGTTtGtaCT	TAAACTCGGt	aCTCCCTtA	TCGaaAGGcA	480
50	TCACGGAATC	GcCCtCtCACT	aT				

1046RP

	GATCGCGCGC	GCAAAGCCCGT	GCgCGAGCTC	GAgcaggTTC	TCGAGGTCCG	GGGGCAGCGC	60
	GTCACACGAG	TAgGCGTAGG	GATAGAGGAT	CTCCTCCGAG	TACGAGTGCA	GGTCCAGGTA	120
5	GGCGTAGATG	TCCAGCTCGG	CCTTCGCTCT	GTTACAGTAG	TCGTTCCAGC	TGCGCGCCTC	180
	CACGGCTCG	AACGGCTGCT	GGCCGCTATA	GTCGCCCGAG	CAGGGGTAGG	CGTGCTGGCC	240
	GGTCCAGtGG	TAGTCGAACG	AGTGGTCAAT	GTCGACGCCA	TCGAGCCCGG	GCATGTACGT	300
	GGGCTGCCCG	tTCTTGCGCC	ACAGGCGGTC	GTGCGTCCAC	GTGTACGCGT	AGCCGTCTGG	360
	GtTGAAACACA	GGGATCACCA	GGAAGTCGAG	CGCGTCCAGG	tAGCGGTCT	CCTTGGGCGC	420
	CCGCCCATAC	CGCGAGAGCA	GACGCTCCAC	GACAAAGCAC	GCCGTGctCA	CGCCAATCCA	480
10	CTCGCGAGCA	TGCACGCCGt	CCGTAATTAC	CACCG			

1046UP

	GATCCGGGAG	CTCCATcATT	AGAGGGTcTg	gACTTCGGGA	AGACACGCAG	TGGTATGTCT	60
15	GTAACTTTGC	AATTTCAAAT	TAATTCTCCT	TTCATCGTAG	TTGGGGCTGC	TGGGCGATCT	120
	CCGaCACAAA	CGGCTGAGTC	GCTGACACAA	ACAAAACTC	GACTACGGAA	AACGACTAAG	180
	CGTCGCAGAT	GCTATATATA	TACAACTTGG	TTCTTAATTA	GGGTAGATC	CTTGCGAGAA	240
	ACAGACGTTG	AGCTTGTCGA	CTTCACAATT	TTAGTCCCGT	CTCCGAAGTT	TCCAGGCAAC	300
	ACGAATAACA	ACACATATTG	CCATGGCATC	GGTAACGTTT	AAAGACAATG	CGGAAGTGAT	360
	AATGATAGGT	GAGCAGGATC	GGAGAAGAGA	GCAAGGtATG	GCCAGGCCCT	GGATAACGGG	420
20	ATTTCATCGAC	GCGGATATCA	TGTGGCAAAA	GGACGGtCCG	TAACTCATAG	TAGACATCgC	480
	CAAAGAGAAC	TTCGACAGCT	TATATTGACA	TTCTCTCTCT	TGCTCTACAT	TGTTGAGGCA	540
	AAGATATAAG	AgAGTATGGt	G				

1047RP

	GATCGAGTAG	ATGTTCCGCA	GCgCTGGCAT	CTTcagGTCC	CGGTACGTCA	GGATGAACTC	60
	GCCAATGCTG	GTATCCAGCG	TGAACCCGTT	GACGCCCTGC	CCCCTCGTTA	GCATGACGTG	120
	CGTGGACGCG	CCGTACATCG	CGTAACACGC	TGCCACGATC	TCCCGGCCCG	ACCGCAGCAC	180
	ATCCTTGATT	GTCCCGCTCG	AGTCCGGAGT	CAGCTTGAAA	ATCGAAACGA	TCGTGCCAC	240
30	CGACACACCG	GCGTCCAGGT	TGACGACCC	GTCAATCGGG	TCGCAGCACA	CCGCATACGT	300
	CCCACCGGTC	TCCGGGAACA	CGATCAGGTC	CTCCTGCTCC	TCCGACACCA	GCACCTTGAC	360
	GTTCCCGCTG	GCCTTCATCG	CATTGATGAA	GATCTCATCG	CCCAGCACAT	CCAACCTTTT	420
	CTGCTGGTCC	CCAGTCGCGT	TAGACGCGCC	GGAGAGCCCA	ATCAGGTTCa	CCAGCTCCGC	480
	GCGTCTGATC	GTCTGCGAGA	TGAACCTGAA	CGCAAAACGAC	AGTGAGTTga	GCAGCAGGTT	540
	GAACTCGCCC	GTGCGGTTTT	TGGCCGAgCT	GCgCTGCGAC	TcCAGGATGA	AACGCGCCag	600
35	CGTAATGATA	TCCGtGTCgA	tAgCCTCTgc	GGAgTcGCGT	CTCTGTGGGT	TCACGGtAGC	660
	CATTTCTGct	TGAGTgCGCT	GTGGT				

1047UP

	GATCACTCCC	CTCGCTTGAA	ACAATGCcgT	aTAGCGGAAT	CTGGCCGAGC	ACCAAGAAGA	60
40	TCAGCAGCGA	GACGGCTGTC	CAGATCAACT	TCTGGTTGTA	TGGCACTTTG	CGCTCGGGCG	120
	CGATCACCTC	GGGCAAAAAA	GCCTCGAAGG	GTTTGAATAG	ATCCAACAGA	CGCCCACTCA	180
	TTTCAGGCTC	ACAATGTTTG	TAGGTAGCTT	GCTGGGCTTG	GATTGGCTAC	ACAGTTGGAA	240
	CCACACAAAG	TCACTATTGG	GCGAGATGGT	ACTCTAAATG	ACTGCAAGGA	GAACTGGTTCG	300
	GTTTTCGTTT	CTGAACAGCT	TAATTGGACT	GAGTTGCAGT	AGCTGTACTG	AAAGGAACAC	360
45	GTATCTTGAA	AAAATTATAA	ATCTCAGTAC	CACGTGACCG	GATaCGAGGT	GCTATTCCAT	420
	CTCGCTAGAG	GAGCTATATG	CCTAGTCGGC	GTACCCCTTG	TGAGTAAGAA	TAGCTCTCTT	480
	GGACAATAAT	CCGtGATGAC	CTTATTATGC	TATAAAGCTA	TTTTACATAG	CAATGGATCT	540
	CCGtGtTTAG	ACCTTTGCGC	CGcCAAAAGA	CCAAGTACAT	CAGCACCGAG	AACAGcAGGC	600
	AATCGcCAGG	CGCTTGTTGA	GCTCCAgAAG	ACATgCTgGA	TGCAAAACCG	AAGAACgCCG	660
50	nTcGGAGTAc	AGTTGGCG					

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1048RP

	GATCGTCATA	GTCCGCCTCG	TCGTATTGGT	TCCTTCTGCG	CCGGCGCTGC	ACCGGCATAC	60
	CCATCGCGTC	CACCTGCATC	TTGTCAATCCG	CGTCCATCTC	GTCGTCCAGA	AACACCTGGC	120
5	TATCGTGGAG	CATCCTGTCC	CGCGCATTGA	GCTGCGCGTC	GATCCGTGCG	CGGTCCGCCA	180
	ACGACAGCTC	CTCGTGCTCC	GCGTCGTCCA	CGCCTCATT	TTCATAGAAG	TCCTTGTTGC	240
	GATTGGCGGT	ATAGTCCGCG	TACATGTCTGT	CGCCCACCAG	GTCGACCTCG	TCTATGCGCT	300
	CTTCTGCGTC	ATCCAGGTCG	TCTTGCAAAC	TCGATGCGCT	CGTCGCCGTC	GGTAATCGGG	360
	GTTCTCGAAG	TCGATCTTCG	TCCCGGGGAC	CCCAGGGGGG	ATTATTCCCC	CATACGGGAA	420
	GCGGGGCCCC	CTCCCAACTT	GTGGGAAGAT	AGTGGGTGCT	CCGAGGTTCT	TTTGACCTGC	480
10	TGTAATANTC	CNCTGTCTTT	TTGGGTTCAA	CTNTAGCCCT	CNGGGCCNGG	TTNACCCCCC	540
	ATCCCGTATG	GAAGCANCCA	ATAACAAATG	CCTCCGAAAA	NTTTGTTNTT	TTCCNATTTT	600
	GGAANAAGNA	AGTTCTNANA	ANGAATTTTN	NANTTNNN			

1048UP

	GATCGCGCTC	CTCAGCCATG	GCTTCCTCTA	ATAGTAACAC	ACGCCCTGCT	TCGTAGTCGT	60
	CGAGGTGCAC	ACCTACCCGC	GCAAATAATG	CCTCATCTGA	CAGCTGCACC	TGGTAGAACT	120
	GTGAGCACCG	GAAGTGCAGC	TTGCTGCAGA	AGCTTGTGAG	ATATTTGTAG	GGGTTGTTCT	180
	GTGTCAGAAA	GTTGCTCACC	CGTCGATTCT	CGTAGGGATC	ACGGATACGA	CCTTGGCTCT	240
	GCCCGCACAG	CGGGTACCCG	CATAGCTTGT	TTAGATTGCG	CTCATCTATC	AAGTCTGAAT	300
20	ATGTCCGGCT	GGGGAAAGAA	CCTTCCCACG	TATTTTAGTG	TCTCGGGTGT	GCATTCTTGT	360
	CTTGCGAAGA	GCAGTTCGGA	GCAATTTCGAC	CGTCAGAAGG	TCCCCCTCCT	TTAGTGAAAG	420
	NNGCGATGTT	GGTGATAGGA	ACTTAAAACC	CGTTTGGNT	TNTCNCAATA	GNAGCCANNA	480
	CCTTANGTAC	GGTNTNCCGT	TCCTAACCCC	GCCGGGTCCC	NGGGNGGTTT	CAAGTTCTTG	540
	GNGGGANAAG	GTNCCGNTNC	CCGGGGGTNC	GCCTACTTAA	GNGANGCCAN	AAGGNAAAAG	600
25	NCCCCCNGAA	AAGTGGNTTT	T				

1049RP

	GATCTTTTCA	CTTTGGCGTG	CTATGGCAGG	CAGCCTGCGC	CTTTATGGCC	TCAATGCCTC	60
	GCTGACGACT	CTCATGTGCC	TGTGGGCAAT	CTGGTCACGT	GGGTACTATC	CAGCGACGGG	120
30	ACTCCCTATG	GCTGTTGCAG	ACAAAGCGAA	ACTCAGCATG	CTCTACGTGC	CCTACTTCCT	180
	GATTCCTCTG	CGCCTCGTCT	TTGTGTGAGG	TCTGGAGCAA	TGCAGAAGTG	CAACACTCTA	240
	TATATAATCA	CCTGACTATG	TACCTATTTT	TGGCATAGCA	CGTTACGTTT	TGTCACGATT	300
	CCAGTCAGTT	AGCTGCCTCG	AGCAACCGGT	GAGCTCCGAA	AAGGGAATTC	GCTACAAGGT	360
	CTTAGCGCAT	AGNCCTGCAA	CTGGCTTTGG	CTAGGTCAAT	TGGTTTTCTT	GGAACCANTC	420
35	TTGGTATAGA	CTCTTGCGTA	TTGATCGGGC	TGAGGAGTGT	TTTNGNGGNA	GNCAAACACC	480

1049UP

	GATCGTCTCC	TCGGCGACAG	CGCCTTCTAG	ACCCCTCGACG	GGCGACACCT	TGATGCTGCT	60
	CTCGCTCTCA	AACGTACCCA	GACCCTTGTA	GTAGGTGACG	CCGTTTTTCT	TGAAGAGCAT	120
	CTCAATACCG	CCAGTCAATT	GCTTCACAAC	GGTGTCTTTG	GCCTTTTGGG	ACTGGGGCAT	180
	GTTCACAGTG	ACCTCGCCCT	TGACGTGAT	ACCGCGCTGC	TTGGCATCGA	GTTGCATCTG	240
	GTGCAGCAGG	TGCGAGTTGT	TTAGCAGCGC	CTTGGATGGG	ATACACCCCA	CGTTCAAACA	300
	GGTGTACACT	AGACGGGCGG	GCTTCTCCAC	ACACGCGGGG	TGAAAAACCA	GTTTGTGCA	360
45	GCCTTCGATG	GCCGCCACNN	TTAACCACCG	GGGACCNCCA	CCCATCAACC	ACAACGTCGG	420
	GGTTTTCTTT	TGTTGGGAAT	TCAACCAGGC	CCNCTTTNNT	GGGACGACCN	CTTANNCC	

1050RP

	NNNTTTNTGG	TGGGGCGTGT	AGANTAGTGG	TCGGGGNGCC	GCTCCACATT	CTCCATGCTC	60
	ACCACCACGA	CAGACTGGAA	GTACAGGAAA	AGCGACATTG	TCGTCCGAGA	GATGTGCGAC	120
5	GCGGCGTTTCG	AGTTCCCAAA	AGCAGACAGC	GTTGCGGACG	CCAGCAGTCC	AAGCCCCGCA	180
	ATTGTGCGCG	TCGCCCCACTT	CACAGGTGTT	TGGGCCACGG	TGCGGCCGTT	CGTGAAGTGC	240
	GTCTGGATGc	ACGACACCTG	GTCGTTCGAC	TGGGTTTCGT	GTACCATCAC	CTTGAGGTAG	300
	GCGTCATTGT	COGGCACCTG	GTACGtCACG	CCGGGAATCT	TNTTTGtGTT	CTCCGcGCTC	360
	ACATACTGcA	CGGcCTGGAT	CTgaaTGTCa	CCGGGtGTCA	CAGGAcAAAA	CTGcTTCtAG	420
	cCGATCCCAT	ACATgTcCTT	CGc				

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1050UP

	GATCCTTTTCG	TATGAAGTAT	GCAGCTGTCG	ATATGCTTAG	TTAACTTCTG	CCCAGCTATT	60
	TAAGCTGCAA	TTGAATCGGC	GGTGACTCAG	CTTGCAAAGG	GTAGCAGAGA	GGACGCGATG	120
15	GGTTTATTTCG	GAAAGGATAG	AGGTGAACGG	ATAGCTGAGT	TTCCGTGTTA	CCTGCTAGAG	180
	ACCNAAACGC	ATCTGGTGCC	GNTGNCAGGG	GATTCTATAC	AACCTTGTTA	TCGAGCGGAC	240
	ATATNGCGAG	CGGATACTAG	GGCAGNTCCC	TGGGATAGGT	GAGGCTNTAG	ACGGGGCGCT	300
	GACGGGCGCT	tttGAGGCCg	CAGAGGTACC	CCCGCGGGTt	GCGGAGGTGA	TGAAGGCGTT	360
	CCAGGAGCGG	TACGACTCCC	GGGGACAAAA	ACGCAGGCCC			

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1052I2

	GATCTGGGTT	GCGCGTGAAG	ACCACCAATG	CGATGCACAC	GAGTATCATG	ATCAGCAAGA	60
	TTAAAGAAAA	GACAGCGTTC	AAAATAAAAA	ATACCCATGC	CATAATGGAG	CTGACGCTTG	120
5	CAGGCTGTCC	AAAGAGCCCT	GAGAAAAATA	AGAAGAGGAA	CGAATTAACA	AGAGTAACAC	180
	TGGATATCAT	AATGTTTCAGG	ATGTTAGTCG	CGCGGTCGAG	GTACGGCCTG	CATTTAGCCA	240
	GAGCTGCGAG	GTATATTATT	TCAATGACAA	ATAGAGCGAC	GGCCTGGGTT	TTACCGGAAT	300
	TGTGGGCAAA	TGCAATAAAT	ACCGCTTTCA	ACAAAAATATG	CGCGAGGATC	ATGCAGGACC	360
	ACCAGTAGTG	TGTCGCACATG	TACATTGTGT	AGAAGAAGCC	GTATTTGTGT	AGCACATTTT	420
	CATTGCCGCA	TAGAATGGCA	GCTGGGTTCTG	AGTGACACCC	AATGGAAGCC	CTTCCACNGT	480
10	AGATAGTGCG	GCAGGCAGCC	CANCCCATAA	TTGACAAGAT	AAANGTNGAG	CTAAGNCTGC	540
	CAGAACGACC	NCCGCCGGGG	ATCANCGTTC	ANTGATTCCC	CACCAGCAGA	GATCGCNATT	600
	GANTGACCCC	GGCAGTTNTN	CGCAA				

1052I1

	GATCTCCGCT	TCAAACCAGC	TAGGGACGAC	CGGAGGTCGT	TCCAGAGAAA	GTCAACAATC	60
	AATATCCTGG	GTAAAGCTAG	CACCGCCGAA	CTACTTGCTC	TTGGCACCAC	CGCAAAGGCA	120
	CACAACGAAA	ACTGGGAAGA	TGAACTGAAG	AAACAACAAA	CGGTCAACCGT	TGATGACCAG	180
	GTTGTTTCGC	CAGAAGATTC	GCCCTTTGCA	GAGCCAGTGC	AGGAACCAAA	GACCTCAGTG	240
20	TCCGGCTACA	TCAAGAGGAA	ACTATCCCTC	AAGCGTGATA	AATCCACAAG	ATCCAATCGT	300
	TCGCAATATG	ATAGGTTACA	GGACTAGATA	TGGATGTTAA	GTATAGAAAA	ACTGTATATT	360
	ATTTGACGTG	CTGGGCGTTA	CGGAAACATA	TAAAGATTTA	ATTACTCATG	GGCGGATGGT	420
	ATTTTTTCAT	GGGCCCCACT	GGACTCCATT	TGGGCAGTTG	GAGGACGAAG	TAGGAACCCA	480
	ATTGCTGGTT	ACAAGCGCTC	GGTTTCATGT	ACCCTATACA	CAAGTATCCA	TTATTNGGGC	540
	TTATTGATTT	GTGTCNTNGG	GCCGGACTTT	TANCTTTCTC	ACTGGGGGAN	GTCCT	

1052RP

	GATCGCGGAC	GCGTGGGCGC	AGAACCCTGGC	GTGGAGCATG	GGGCTGATCC	GAGTGGAATT	60
	CATGCAACGC	ATCTTCCGGT	GGTACGTCCA	GGCGAGCGGC	GGCGAGCCGT	CGCTGCATTT	120
30	GACGTCAACG	ACCACGTCTG	TGCTTGCCCA	ACGCTCACTG	GATGCGCTAG	TGGGCCGGCC	180
	CGTGAGCAAG	GCGACACAGT	CGCTATTTCG	CAGCACACAC	ACGATGATCT	TCAGAGGGAT	240
	CCGTAGACTG	GCCTACCGTG	CGAACATAGA	GAGCTCATCG	GTTGTGTGTA	CCGGGCTAAC	300
	GTTCTTCCTT	CTGTTTCGGT	ATTTGGATTG	GCGTGGCGGT	TTACATTTGT	TCAAGCGGGG	360
	CTACTCGGAG	CTGCTTATCC	CGCATGAAGG	TCAATGAACC	CAGGTCCGGG	TCCCTAGACT	420
35	TCCAAGAAAA	ACGTGGGTGA	TTGNGCTCAA	AGGTGTTCTT	TTGGGGTANA	TCTTCCCCCG	480
	NGTTCA						

1052UP

	GATCCAGCTC	TTGCGCGGTA	TGAACTTTCC	CGCCCGCACC	GGCGCCTCGC	ACACCGAAAT	60
	CGACCGCACC	TCCGCTCTCG	TCTCGTAGTT	CCAAATTTCC	GCGCGCCCCG	AGTACAGCGT	120
40	GATCAGCACC	CACGGCTCGC	TCGGGTGAAA	GTCAATGCCC	TTCACCCTGT	CTGTCTCTGA	180
	GACAAACGTT	TTCTACTCAC	GTTAGTACTT	GCTCCGCGCC	CTGGATAGCA	TGGTCGAGCT	240
	CTGCGGGTCC	GCCCCCTCCG	TGGGTGGCAA	AGATGGTCTT	CAAACACACC	GTAATAGGCC	300
	GTGCGCGACC	ATGCAGGCCC	CATTCGTCTT	CGGACACACA	CATACCTTCG	TTTCCAAACT	360
45	TCATTGGTCC	CCACTTGGGA	TTCTTAGTAG	CTGTTCAACT	CGGCTTTTTG	GGTCTTGTG	420
	GAAAANTAAAT	ATTCCCNTGG	ATTATTTAAA	TAGGGGTCCN	TTTTNTTT		

1053RP

	GATCATAGTG	ATTGATATCG	GGAGAGGGTT	TCgTaTGTGA	CAGCCTGTAT	TCACGTATCT	60
	GGTCCCTTCAC	TTCATATATT	TCTTGTGGGA	GCTGTGAATA	TATCTCCATG	CGTTCTCTGT	120
5	TCCATTTTTC	GTGCATTTTG	TGGAATGCAG	CCCACTTCTC	GTACGTTGAA	GTAGGCTTGG	180
	GTACTAACGA	TCCCTGAACA	GGGAGGAGGC	ATGTTGCGAG	GGAGAATATT	AAGGAATCAT	240
	ATCTCATTTT	TACGTCTGAG	ATAACTAGTA	CTAACTGCAA	TGCGGCGTCC	AAATACCCGT	300
	CGTAGTAATC	GTATAGGAGC	AAAGCTTCAT	CTCTTATACG	ATGTGGAGTT	GATTTCAGTCC	360
	ACTGCAGCCC	TTGGTATTTA	GCCAGCATTC	CATCATATTT	GGACTGATAA	TATTCTGAAGT	420
	TCTTCCACGC	GTCTTTATAC	GGATCAATTA	CTGATTTTAC	AACATCGAGT	AATATGGAAG	480
10	GATATAACTC	TGGATTGCCC	TGTATGACTT	CCAGCACGCC	ATGGAACATA	TcCCGAATGC	540
	CGTCGCGGCA	CTTGGAGACT	AACTTTGGCG	TGTATATCTG	CTCTTCGACT	GtCCCATGGt	600
	TGAgtGtAGGt	ATCTTCAGGT	aGAATGAAGT	CAATGAGCGA	TAAACTGact	TGCTTGAATC	660
	gtcCCAAAGA	GT					

1053UP

	GATCTCGGCT	CGcTGCTCGC	GCTCGAGCCC	TACTGGGCAG	AGCGCTACCC	AATAAACAAAC	60
	GCCCTAAATCG	GCGGTGCAGA	TAAATTGCAC	AAGCTCTACT	CAACCGATTT	TGCGCCCATC	120
	GTCGCCGCCA	GGACTTTCGG	CTTGAACCTC	GTCGACAAGC	TTGGACCGCT	GAAAGACCTC	180
20	ATAATGGCAA	AGGTCAGCGG	CCCAAAATTA	TAGTCACGTG	TACATAAAGG	TTTTCTTAAT	240
	AGCTATACAG	CTTGCCCGCG	TCTTCAGCTT	GCAGCGCGCA	ACCGGCGTGC	AGCCATGAGC	300
	GTCTTACTGG	AAACTACCAT	TGGCGACCTT	GTAGTAGACC	TGGACTACAA	GACATGCAGC	360
	GCCGAGAGCT	ACAACTTCCT	CAAACTCTGC	AAAACTCGCT	TCTACGACTG	TCAGTGCATC	420
	TAcCGAcCTc	CATCCTgAaG	GCTCAGCACG	CCCTcGGCGA	TCCACAGGTG	GgCTTTGCAT	480
	TCCGCACGGA	TTTGCTGTGA	CACAATACCT	CGATCGAAgG	CCTGCGCGAc	ACACGGGCGG	540
25	TCACCCCGAA	GCTCATTGAA	GCCTcCGTTG	CCGCTcAACC	CGCAGAGCGC	TTcGGACAGG	600
	TCgCCTTTG						

1054RP

30	GATCCGTTCG	CGGTCCGccA	ACGACAGCTC	CTCGTGCTCC	GCGTCGTCCA	CGCCCTCATT	60
	TTCATAGAAG	TCCTTGTTGC	GATTGGCGGT	ATAGTCCGCG	TACATGTCTG	CGCCACACAG	120
	GTCCGACCTCG	TCTATGCGCT	CTTCTGCGTC	ATCCAGGTCT	TCTGCAAACT	CGATGCGCTC	180
	GTCGCCGTTC	TTATCGGGGT	TCTCGAAGTC	GATCTCGTCC	GGCGACCCCA	GCGGCGAATT	240
	ATTCCCCATA	CGCGAGCCGC	GCCCCGTCCC	AACCTGTGGC	GACGATGGTG	GGTGCTCGTA	300
	GCTCTGTGAC	CTGCTGTGAC	TACTCCGCTG	CTCTGTATCG	TTTTTCATCTC	TAGCCCTTCT	360
35	GCGCCCGTGT	GAACCCCTCCA	TTCCGTTATG	CGAAGCCATA	CCCAAAATTAC	CAAATTGCCC	420
	TTCCTGAGAT	CTTGAATACT	ATCTCCCAGA	TGTTTGACAG	ACGCGCAGCT	TCTcACGATA	480
	CGAAATATCG	TGAtTTTACG	TGAcTTTCAA	TACCTCATTT	gGATTGGATT	GGtGAAGCAT	540
	AGATTTTCAG	TcaTATTGAA	AAATTATTTT	CAAAACAGGGC	AATTGGATGA	GCTG	

1054UP

40	GATCGTTCGCG	TTgcgCagGG	CTGCCCAACG	AAGCCTTGAC	ATGTCAAACC	GCTTGAAAGA	60
	AGAGGTGATA	TGGGCCACCC	ACGAGGCCAA	GTGGGAGCAA	CTGCTCGCTA	CTGGGACCCT	120
	TCCCCCAGAT	GGGGCCAAAA	GCGACTGGAA	GCCTGGCCGA	GCATGGCTGG	AACCATATGA	180
45	GGCCGCGTTT	CGGAACCAGC	TTGCAAAATCG	CAAGCGCACG	AGCCAGAAAG	TCAAGCGCTA	240
	TAGTGCCCAA	ATCAGCAAGG	TACACCTCCC	GTATTACATT	AAGTGCAGTG	CTGCTATGCA	300
	TACCCGTTCG	GCCAAACGCT	tCGAGTGTTT	CCAGAAAGAG	CTCCACACCG	TTAATCCATT	360
	CGTTCCAGGC	AGAGATCTCG	GtTCCCTACT	CTCCAAGTGG	CGAATGGTGA	ACGGaAAAAA	420
	CTACTATCGC	TGAATGTATA	TAGtTTATAG	TCCTATTCTT	TCATcAGGtC	TCCCAGCAGA	480
50	GGCGGCCGCT	CGGTCTcAAC	TATGCGCACC	TCGCTcAGCC	ATTGCTGAG	GTCTTCTGTA	540
	GTTCG						

1055RP

	GATCCGTCGC	CGGTCCGcCA	AcGACAGCTC	CTCGTGCTCC	GCGTcgTCCA	CGCCCTCATT	60
	TTCATAGAAG	TCCTTGTTGC	GATTGGCGGT	ATAGTCCGCG	TACATGTCTGT	CGCCCACCAG	120
5	GTCCGACCTCG	TCTATGCGCT	CTTCTGCGTC	ATCCAGGTCG	TCTGCAAACCT	CGATGCGCTC	180
	GTCCGCCGTCG	TTATCGGGGT	TCTCGAAGTC	GATCTCGTCC	GGCGACCCCA	GCGGCGAATT	240
	ATTCCCCATA	CGCGAGCCGC	GCCCCGCTCCC	AACTTGTTGGC	GACGATGGTG	GGTGCTCGTA	300
	GCTCTGTGAC	CTGCTGTCAC	TACTCCGCTG	CTCTGTATCG	tTTTCATCTC	TAGCCCTTCT	360
	GCGCCCGTGT	GAACCCCTCCA	TTCCGTTATG	CGAAGCCATA	CCCAAATTAC	CAAAATTGCC	420
	TTCTTGAgAT	CTTGAATACT	ATCTCCAGAA	TGTTTGACAG	ACGCGCAGCT	TCTcACGATA	480
10	CGAAATATCG	tGATTTTACG	TGACTTTcAA	cACCTcAtTT	TGGAtTGGAT	TG	

1055UP

	GATCGTCCGG	TTgcGCAGGG	CTGCCCAACG	AAGCCTtGAC	ATGTCAAACC	GCTTGAAAGA	60
15	AGAGGTGATA	TGGGCCACCC	ACGAGGCCAA	GTGGGAGCAA	CTGCTCGCTA	CTGGGACCCCT	120
	TCCCCCAGAT	GCGGCCAAAA	GCGACTGGAA	GCCTGGCCGA	GCATGGCTGG	AACCATATGA	180
	GGCCGCGTTT	CGGAACCAGC	TTGCAAATCG	CAAGCGCAGC	AGCCAGAAGC	TCAAGCGCTA	240
	TAGTGCCCAA	ATCAGCAAGG	TACACCTCCC	GTATTACATT	AAGTGCAGTG	CTGCTATGCA	300
	TACCCGTCGC	GCCAAACGCT	TCGAGTGTTT	CCAGAAAGAG	CTCCACACCG	TTAATCCATT	360
20	CGTTCCAGGC	AGAGATCTCG	GTTCCCTACT	CTCCAAGTGG	CGAATGGTGA	ACGGTAAAAA	420
	CTACTATCGC	TGAATGTATA	TAGGTTATAG	tCCTATTcCT	TCATCAGGTC	TcCCAGCAGA	480
	GGCGGCCGCT	CGTTCTCAAC	TATGCGCACC	TcGCTCAGCC	ATTGCTGAG	GtCCTTCTGT	540
	AGTTCTGTCAC	CCG					

1056RP

	GATCATCAgC	GCGAGCTTCC	aATTtGTGGG	CTTCTGTtG	ACATACATCC	TCCaCACCTC	60
	GCATGCGCGG	CGCCAGgGCT	CGCGCTTTGG	CCTCGGCCTG	ACCTTCACGG	GATACGGGTa	120
	CAGCATGATT	CCTAgCGACg	TgACGAgCAA	GGTCGGcAAg	GACCGCGACa	TCgCgCGCGT	180
30	gGAGCTGGAc	GACCCCAaCG	AATTCGAAGa	TTCCGACCTG	TACTCgCCGC	TGGCGCAgCC	240
	GGCGCAGGAC	CGCTTCGAAT	CacagCTCTC	gCACGGGCTG	ATGGAAAAAC	GGCGCAGaAT	300
	TCCGGCGCTC	GCGATCGTgC	tagAgATTTT	GGGGCTTgCa	ATTATGTGCa	aAAGCgTGTA	360
	cgACTACAtt	GTGGTCaAGC	GCAgGAGCg	CCGCATCtTT	ACTGcGAgCG	ACAGCgAgAg	420
	CCcCGCATAG	ATGTTcATAT	aACTTATATa	TCCCTCATtG	ATCTTCGcTT	GGGCCCCgTC	480
	TAGGGAGCAG	AcCAGcAGTT	TCTTCGTtCG	CCCTNAaGTC	GATgcCgCCA	GAGAGACCAG	540
35	ACGCCCCAGc	GCGGTa					

1056UP

	GATCCAACCC	AGGACTTCTC	GAAAGATAGA	ACTCCGAACA	CAGCCACCGG	CACGAACTTC	60
40	TCATCAGCTA	GCAGCAATAC	TAAGCAGACC	TTCAGCGAAA	ATGAAGAAGA	ATCTGATGCT	120
	GAGTTCGAAG	ATGTATAGTT	GTACCCGTAT	ATTGCATTTT	TTTTTTTTTTT	TTTTTTTTTTT	180
	TTTTTTTTTGA	gATGTCAAAA	GCTCATCTCA	ACTCCATGAC	CAGCCAGTAG	TGACTAAAGC	240
	AGTGTGTCTA	GTTCTTCTAA	GTGATTTTAA	GGACTATGAG	CTTTAATGAg	AAGGTGAAGT	300
	GGGTACTAGG	CACGTCTGTT	GCGACTCTAG	TTACGATAAA	GTCTGTGCGAA	GCCGTATATC	360
	GCCTCTATGC	AGCTAAGCAG	AACACTAGCA	GGAGCATTTC	TGGGGAgGAg	AAGGACGTaA	420
45	GACTGGCCAA	ACGGATTCTG	GAGTCTAGGG	CGTaCGATGA	gGAATTATaT	CgGGAGCAGT	480
	TAgCTCGGAa	CTACgCaTTT	TGGGCGaAGa	CGGTaTgGCa	CGACTACaGG	AACAGTACTC	540
	ATATgGTGGG						

1057RP

	GATCAGGGCC	AAATCACTGC	TAAGTACAAA	CACAAAGGGC	CAAGTATTAA	GGTGAGAGAG	60
	CGTTACAGGT	GCATTGATAA	TACCCGAGGT	ATATATCAAG	GCGCACAGTG	AACACATTCT	120
5	GCAGACGATA	GATATGTCTG	AGACGAAGTA	GGTTGAGATA	TTTACGCACA	AGCCTCATT	180
	GTAAGATAAA	TGGTCATTAC	TAACGTTTTT	GGGTTTAGCA	GCAGCAGGCG	GAGCAACAAC	240
	GAGGGGCAGG	AGCACGGTGG	TGGTGGACAG	GGTCCAGGAG	TCGAGGATGG	CGGGGAGCCA	300
	CGGGCCAGGG	CGAACACGCG	CAATGTGACT	GTGGCAATCC	AGTACTCGTG	GCTCCACGAC	360
	ATGAGGAATG	TCGGGGGAGA	GGGCGAGGAA	CGGGACAGGG	CCCGGGGGAG	AACGGAGATA	420
	CGTTTCGTGAT	GAGCTTCACG	GACGTGCCGG	ACTCGACGTC	GAACGATCGG	TTTCAGGAAG	480
10	TGATCGGCAT	TGCGGCGCAG	TTTGCAATTGA	GCCGCGTGCC	GCGGCGGATC	AGCCTCCTGC	540
	GGGGGCTCTC	GAAGGAGTCC	TTTGAAAACT	CCCTCTCAGG	AAGCTCAGCG	AGCTGGACAG	600
	CGAGCTGTGC	AGTATATGCT	ACGACGACTT	TGAAGACGAC	ACGTCGATCG	GGT	

1057UP

	GATCTAGGGG	TTCTTCTTGC	CGCGCTACGG	GCGCCCCTCG	CAGCCTCGCG	CTGGCTCCCG	60
	CGCGAGAGGG	GATCGGCAAG	GCTCCTCGCA	GCCGCACACT	GCGTCTATGC	CTGGACCGTC	120
	CGGCGAGCCG	GACAGCCGAG	GAGCAGCCCC	GCGATGTCGT	TCTCCCCGGC	GGCGCTTACT	180
	CTGGGGCTGG	TGTGAAATTT	TCCTAAAACT	GGTGAATTTG	TACGGGCTCG	CTGGAGCCCG	240
20	CGCCTGTCGA	TTGTACACGG	GAATACCGGA	TCAATTGGAT	GGGGACGCCA	GTGTTACCCC	300
	CGAAACCGTG	CGCAGCGGCT	GGCGGGCCGA	GGGCTGAGGT	GCCGCTGCCG	CGCAAGGCCG	360
	ATTGTGCTGT	GACTGCAGAG	CTGCAGGAGC	TGTTGAAGGC	GCAGGACAAG	TTGCAGCTGT	420
	ACGTGGCGGG	GTTGTGCGAG	AGCGAGGAGA	CGCAGAAGCG	GGTGGAGCAG	CAACGAAAAC	480
	AGCTGGCTGA	AATACGGGAA	ACGTTTGCGG	GGCTGGAAGG	GGAACGACAG	CGCGTGCAGG	540
	AGCGGCTGGA	CGGGTATCAG	AGGCTAATGT	TCCGGTACCA	TGAAGCGTGG	CAGGCGGTAR	600
25	ACGGGCGTGC	CGGGCCCGTT	ACAACGACGG	GTTCTGCCGG	CGCGGCTGCA	CAAGAAATGC	660
	GCGCTGCC						

1058I2

	AAGCTTGCA	GCCTGCAGGT	CGACTCTAGA	GGATCTTGCA	AAGTATGGCT	TGGTAGTGTG	60
	GTGATGGTTA	TCTGCAGTTT	CAATTGCTTT	GTTAGTTAGT	GTATCACATT	CTTCTGGCTT	120
	TGGCCGATTA	GAGTGCCTGG	CCTCATGGAT	GGGGATCTCC	GGTGTATACA	CGTATATTTA	180
	TTCTCTTCGC	CCAAGTGGCG	GAGTACAATT	TTCTCTTAGC	TGGACCTATT	TCGGTTGTAT	240
	TTCACTAGTG	AAATAAACT	ATCAATTAA	TACAGCTTTC	GTATGACTCT	GCCACAGGAT	300
	GAGAGCGAG	ACTCTGCAAA	GTACCGGATT	TCAAATAAAT	GTTTAGGAAT	AAAATCAAAG	360
35	GCGTACAATT	ACATAATTAT	AAAATGCTCT	CGTAGCTATG	TCCTTCGGGT	CTTTTTTT	420
	TCCTAAAGTG	AACATCGAGT	CTTGTCCTTC	TTAGGTGTTT	AGATGACAAG	CTTACATGCC	480
	TGCNGNNGNN	AAACAGTTNG	TCGAATCCCT	CGGATCCTCN	CCANGTAGNA	AGGNANTACG	540
	NNCAGCAGAG	TCATTACCNC	NACCCACCGG	CTTGCCANCC	NANTTNCCTN	GGNNGNAGNG	600
	GGNNGGNGNT	TGNACCNANN	TTTGNNCCNT	NGCC			

1058I1

	GATCTTCACA	TTGCGCATGCA	GGTCTTCTT	GTTTTTAGTA	GCACCCCTCCG	GCGCCTTGTT	60
	GGCCTTCAAC	TTGAGTTTCAT	CCGCACTTGG	CTTGATAAGA	CCAGCTTTC	AGTACACCAT	120
45	GATGTCGTGC	TCATCACCGT	GCTTAAAGCA	ACAGCGCTTG	CCATAGCGGC	AGTAGCCTGT	180
	CTTACTCCAA	TTGATACATG	GCTTCGTGCG	GAATTTGTCC	GACCGCTCCT	TGAACTTTAA	240
	CTCGTGGAGA	CCATGGGCAA	ATTGGCACTT	GTTATCGTAC	TTGCAGGCC	CCGTAGTCGC	300
	AAATGATTTCG	CATAACTCTG	TCTTGTAAG	CATCTTGTTG	ACCTTCTCCT	GCGATGGCTG	360
	TGGCTGCTGC	TGTGGGGTGG	CGGGGGCGGG	GACTGAAACC	GGCAAAAGTT	CGGCTCCGGC	420
	TGTGCGCCTG	CTCGCCCTGG	GCGCTCGGGT	CCTCCGACG	GATGCTGCAG	GAGCCGAGGT	480
50	TTTCGGGCGT	CAGGGTAGTA	TCCCATTTGG	AGGCCGNTAA	TGAGAGTTTA	TCGCCACCTC	540
	NAAGGTAGGT	TCCCCGTTCC	GNAGGGCCAA	GGGNAATCAN	TNGCCGCCCA	AACCGTNAAC	600
	CNCCCCCNCC	CNGC					

1058RP

	GATCATTTCTT	GAGAATGCTC	ATAGTTATGG	TTTAAACGGT	CTTCAAACGG	AAGAGTATCT	60
	TCAATTACAG	AGTAGTTTGG	AGAGAGAACA	GGTAACGTCC	TACAACATTG	CCGAGAAAGC	120
5	AACTACAATT	GGCTACGTTG	CACTTCCAAG	AACCGAGTAC	GATGAACTTG	TAGCTTCGCA	180
	AGCTTCTACG	AAAGAACAGA	ATTTTGAGGT	ATACGCGGCG	GAAAATGGCA	AGGTCATAGT	240
	GGATAAATCT	GAGTATCACG	ATTTGAAGAT	CAAAGCTATC	CCAGTGATTT	CACCATTGCC	300
	TCAAATGAGC	AAAGAGCAGA	TGGTTGAAAA	GGCCAAGGAA	CTTGGAATGG	TAGCTTTGCT	360
	CCATTGACGA	GTATGAGAAG	TTAAAGAGCC	CTATTTCCCG	ATAACGCTTT	GGATTGCAAC	420
	AGCGAAGGAC	CGCGGAAAGG	TTGGTCTCCT	AAAGGAGGAG	TACAACCCTT	TATTG	

1058UP

	GATCTGGCGC	CCCGACAGCC	TGCCCAGGTG	CGCCTGCATC	CGCCGCTCCT	GGTCGCGCTC	60
15	GTCGAGCCCC	AGCTCCTGCC	GGAGCTAGC	CCTCCAGCTC	ATGTACGACT	CATGCGTTAC	120
	CTTCGTTCCG	CGGAATTTCT	TCTGCTCTTC	GAGCTCGCGT	TCCGCTAGCT	GCCGCTCGTG	180
	CTCCTTCTCT	CGGCGCTCAA	GCTCCTTCTG	AAACCACGAC	TCCGCTCCT	CCTTTATTGA	240
	CGAGATCAGC	GCAAAACACA	TCTGTATTC	CAGCAGGATG	TCCTCCTCCA	CCTGTGCGAT	300
	GGACTGGCTT	GGAAAGACCG	TCCACCTCGC	CGGTCAAAT	GAAATGCTTG	TCCGGAATAT	360
	TCTCCAGTTT	CGCAACACAA	GGGTTCCTCC	GTGCTCGTCC	GGACTTCCTN	GTTCCTCAAT	420
20	CCCNCTCAA	CCTGCTCGGN	TTTCGGCGGG	GAAAGTNCCA	NCGGGCTTAA	TGTCAC	

1059RP

	GATCTGTTAC	GCTGCAGCGC	GAAACCTCCA	ATGCTCTGGG	CCAAGGTTGG	CGGCTGGGAT	60
25	TCTTGGGCTC	ACTGCATGCT	TCGGTTTTCA	AGGAACGACT	GGAGAATGAA	TACGGCTCGA	120
	AACTCATTAT	CACACAACCC	ACTGTTCCAT	ATGTCGTGGA	GTACTCCGAT	GGGACCCAGA	180
	TAACAGTAAC	AAATCCAGAT	GACTTTCTCT	ACCTGACACT	TCCGCGAACC	AAGATAAAGA	240
	ATTTCCAGGA	GCCATATGTA	GAAGCTATAA	TGACTCTTCC	ACAGGATTAT	CTCGGAAGGG	300
	TTATCACTCT	CTGCGACGAC	AACCGTGGCA	TACAGAAAGA	GATAACGTAC	ATTAACACCA	360
	CGGGGCAAGT	GATGCTGAAA	TATGATATCC	CATTGGCACA	TCTAGTAGAC	GACTTTTTTG	420
30	GTAAGCTCAA	GTCTGTACG	CATGGTTATG	CTTCCCTAGA	CTACGANGAT	GCAGGCTATA	480
	AGCCGTCTGA	CATTGTCAAG	ATGGAGTTGC	TTGTAAATGG	AAAAGGTGTG	GATGCACTTG	540
	CACAAGTGAT	GCATCGCTCC	CAAACCGAAG	GARTGGCCAA	AGAATGGGTT	ANGAAGTTCA	600
	AGCAATATGT	CAAATCCAG	TTATACGAAG	TGGTTATCCA	GGCC		

1059UP

	GATCGTGGCG	GACGTGTTTT	TGCGCACCGC	GGACGTGCTG	CTGAAGATGT	CGCGGTACGA	60
	RGAAGCCAAG	GCGGCGGCGG	ARCGCGGCCT	GAGCCTGGAG	CCGGACCACA	TGAAGCTGAA	120
	GGCGCTGCAC	CTGGAGTCTG	TGCGCAAGTT	GGCCGACTAT	AACGGCGACA	TCTAGTCCGC	180
40	GCGCGCGGCC	CGCGCGGGCA	CCACGGGTAT	ATATACACAG	CCGGTCTCCG	CGCGCCATGC	240
	CGCCCGCCGG	GACCGCAGAC	ACAGGCCCGG	ATCTTGCGCG	GCGGCGGGCG	ATGAGCTGGT	300
	GCAACCTCT	TGGCCCGTAC	CCTGCTAAGG	AGGGTAATCT	CCCACCTCAG	TACTATAAAA	360
	AATTTTAAAG	TTAGCCACTT	TCGAGTTACA	ACTCCCCGCC	TGTCGGGTAA	CGGATCTCAA	420
	CTTGTGAAGC	CCCTAACGCT	GCTCTACTCC	TTTTGCGCTA	AGGCAATATC	CCGCCATGTC	480
	TTCGTCCGAT	ATCAATGTCA	CGGTTGATTG	GTTTATTGAT	AGGTTGAAGC	GGAAGCAGAT	540
45	TACTGGCAGC	TACAATGTGT	CGCTGGAGAC	GTTACAAATT	CTGATGCGTT	ACGTATCTGC	600
	CATCCGGTGG	TCGACGAAGG	ACGARCTCAT	TGAACAGATC	CGTCTACTC		

1060RP

	GATCTGCTCA	TACTGAGCGG	CCAACTGGTC	GTACTCCGTA	TGCAAAACAT	CTGTGGTTTC	60
	CTGGAAGTGC	GCCACCTTGA	GCGATATCTC	ATTAAACTTG	GTAACCAGCT	CTCCCAACTG	120
5	ATGATTGACT	GCACTGGTTT	CCGTACAGCAG	GTCCCTCCAGT	TCGCCAGTTC	TGGTGTCCAC	180
	TTCCGCCACG	TATCCGCTGT	ACAATGTATA	CTCGTCGTTC	GCAGACCCCA	GARCAGAAGC	240
	TCGCCGCCAC	TCTGGCGCCA	GCAGCTCAAT	TACCTGAGGT	TCAATCTCTG	TTTCAACCGT	300
	TGCCAACAGA	GTGTCTACTT	TTTGGCGTAA	CGAACTATCC	CCAAAAAGCG	GAGGCAGCTC	360
	ATCGTGAGAR	GARGCACCGG	GATTTGCCGC	TACATCCTGT	ATGACTGART	TCTTCCGGCT	420
	CCTAAGCATG	GTGCAGTTGC	TGCCTCAACG	GC'TTCTTCC	TGGTGCAAGT	CTGCAGTGGT	480
10	TCGTGCTTAT	GCGCAAGCAG	AATACCATGT	TGAGCCGGCG	AAATCTCATC	ACGTGATCAT	540
	CATCTTGCAA	CGGCTCGGAR	GACRCTGATG	CACTGTTCCT	TAGGCTTAGG	GCGCAATTAT	600
	ACGCTAGCTA	GTTATATTGA	TAATATGTAC	ATGATGCCCT	C		

1060UP

	GATCTTGCCG	TCCTTCTTGT	CCAGCTGTAG	GTCCGGATGA	GGGTACGCCCT	CGCTCAGGTA	60
	CTCCAGCCGC	AGCTCGCCGC	TCTCCATGGA	CGCCTCCAGG	ATCGAAGGCG	CCGGCACAGC	120
	CTCGGAGGGG	AGGGGCGGCT	GCAGGAGGGG	CATCTCCTGT	CGCTCCTGGT	GCATCTGCAG	180
	CGCCGAGGCG	CTCGGCTCCA	GCGCCGGGTC	GAAGTACTTC	ACATTCGTCA	GGCCCGACTT	240
	GTACAGATTC	AGGATGCAGC	CCTTGAGCTG	CGCACGGTGC	AACCGGTACG	CAGTCGCGAC	300
20	ATACTGGTAC	CCGCTCGTCC	CCCCTCCCGT	GAAGTGCGGC	CGCTCCGATC	CGATCGAAGA	360
	CAGTGACGCT	GTGGGCTGGT	GGCTGTATCG	CCCCTCGCGC	GCCGGCGCTG	CGCCCTGCGC	420
	CTTGTTTACC	CACCCGAGCC	GAAACACAGT	CCCGTCGTAC	GTCTCCCCGT	TCAGCCCGCC	480
	TCCACGTGCG	ACCGGCGARC	CCGCGGCTG	CGARCAAGGC	GACACCTGCT	CCTCGCAGCG	540
	CGCACCCGCC	TTTATGTCTT	CACATGTGAG	CGTCCGCTTG	TGCGCTTGCC	CCGTCNGCAC	600
25	CTGTTAACTG	CATCCGCGTC	TGTTGGCTGC	TGCTGCTTGC	TGCTTGCTT		

1061RP

	GATCTGCTTT	TGtAAGTaTT	CATCAGCTAA	ATACCGTAAA	GCTGGTTTgA	ACGGAGGTCC	60
	TGCCTTGtGC	TCATATATTA	TAGAAGTATC	AATGACGAGG	GGATGCCGCA	TtTCAAGAC	120
30	GTTCAAGTCG	GCTTGCAATG	AATGGCCGAT	AAGCACATCT	GtTGCCTTA	TCATCCGCAA	180
	GAGATCCTGT	tGGACGTCTT	GCAAAGtCGT	GGTCACCCCG	ACCAACTTCT	CCTCTGTAAT	240
	ACCGCTGTAC	TtCGTCAAGT	AGtCCACAAT	GGGCTCATCT	GGCTtGACAA	ACTTGtCATA	300
	AACTAAGTTA	CAATCAAAAt	CGACGACGCT	CACACGCGTC	AACACGTATC	CGTTTTaGa	360
	aaGGcACATC	TCACAGTCGA	TGGcAAACGT	GTGAGAACCG	tCGTGTtGGA	AACTGACAGT	420
35	GTCCACCCAC	CCACTGcAt	TCTCCTtATT	CTGATACTTt	AGcAACAAAG	CCTTtTGGGt	480
	ACTCCTCCgA	TAAGCCAGGT	GtGTTTAGAT	GGaTGGGGTa	CTCATTaTGc	AATAaGTCAA	540
	CAACGGGCAT	AGcAAAtCAA	GcAAGtGATT				

1062RP

	GATCTCGGTG	ACGTGGcgcT	GGTATGGcTT	CATCCAGTCG	CCGtTCAACA	AGAAGTTTCT	60
	GTTAACGTCG	AAGTTACAGC	TGGTGAAGGA	ATCAACCTCT	GCGCCACCG	CCTTGATCAC	120
5	CTCTGGTGTG	TTCAAATACT	CCTCACTGTA	CTTCATGTCA	TCGTAGCAGA	GCTGGCCCTC	180
	ACACTCCTTG	CGAACGTCGT	AGACGTTCTT	ACCAGtTCTC	TGGAACGGCG	TCAACTGGTT	240
	GCCATTACAG	TACAGAGAGG	CTGGAACACA	CGACCACACG	TTCTGCAGGG	TGTAGCATGT	300
	GCGGATCAAA	CGCAAGCACC	GtGGCAAGGT	CTCGTTcATT	GCCGAGCATT	GCTCTGGGCC	360
	AAGAATGGCG	GGTTCGCCGc	CACCACCcGA	GGCCATACGC	TCGTAGTAGG	GGTACTGTgT	420
	CAATGGGTCT	gTCAaCCCgt	tCCCAaTTaG	cACAGAGcTC	AACTTaaaCG	AGCGCTCctC	480
10	GcCTGGGTGc	GAcAAGATCT	CGGCAGcAAT	aGcAGGAaTg	Tg		

1062UP

	GATCCTGGTT	GtaTCATAGA	GAATGAACAT	ATTGATAAAA	AAATGCTACT	GTGTACAGTA	60
15	ATGTCTGAAC	ACCAACATGC	TCTTTTCTTG	TATTAAATGA	TGGGATAACG	AAGTCTTGGA	120
	AGAATCCTGG	GCGGAAATAG	TAGACATGTT	TAGAGAGATT	TTTGTAATGG	CTAGAGTCGG	180
	TTTTGATGGC	CGAAAAAGAA	GTGCCAACAT	TTAAATTCGA	AGGTTTATCA	GGTAGGTCAG	240
	GGAATATACT	ATCCTCGTAT	AAACCCTTGA	TTGTACTTGC	AAGGAGCTCC	AAGTCGTCTG	300
	AGTTAGGCGA	TGGTTCATCT	TTAGTGTcAG	CATCGACGAG	GACCTCACAT	GTGATTCCTG	360
	AGTCAATTGC	ATCTATGACC	TCTCCATTCA	CAATCAAGCC	CATGGGTCCA	ACCTcCTTGA	420
20	GAGCCGCCTT	GATAAGCTCA	GTACGCAGCT	CGACCGAAGT	ATCCAACGTA	AGTGACTCCT	480
	TTATTTTCGAA	TTGCAGATAT	TCgGGCCGCa	CTGCATGTAT	AGATCCCCCA	TGAATAAAGG	540
	AGAATTGCTG	CACAGTAGTA	AACGCAAATC	CCGCGTAATT	AGTTGGTTGG	CTTCTTAGGA	600
	AGTCAGTGAA	CCGATTATTT	GCGTCCTGat	CCT			

1063RP

	GATCGACTTG	ACCGTCACCC	GGTACTGGTC	GTACTTGTcG	ATGAACTGGT	CCTGTAGTTC	60
	CCCCAGTTcG	TAGATGAGCA	CGCCCAGTTT	GTCCGGTCACG	TCGGACACAT	CGTCGTcGTT	120
	GTCCATGCCc	CACATCGACA	GCTGCCGCGC	AGCGGCcGCG	CGCTCAATTG	CCACCACTTC	180
30	CAGCGCACGT	AGCACCCCTT	TTTCCGTCTT	CACGAACGAA	GACAGCTTCC	GTGCCAACTC	240
	GGGGCCAAAG	TTTCCCGCTG	CATTCTTTGG	GAACGAGGAA	GCAATCCCGG	CACGCCCAAA	300
	GAACTTGGAA	CGTGTGGAAg	AGGGTGGGGG	AGGGGGTGAC	TGGAGGTCTG	ACGCAGTAGG	360
	CGCCTTCTGG	TTTCTCAAAG	AGTATGTTCT	GtGCATATTc	TCGtGCTTAG	ACTGGTCTGG	420
	CAGTCGGtAT	TTGTAGGTCC	GATaAGATTc	TcAGACGACA	GCAAGTAAAG	TACAACGGTG	480
	GTCGGtGCCc	CTcCAACGTc	TTTTTT				

1063UP

	GATCTTAATA	GCaATAGTCG	ACTACAGGAA	ACACAAGCTT	TCATAATGTC	GAAATCTTTA	60
	TCATGGGATA	CACTAGACTA	TACTCTACAA	CCATGGATTc	GTACTGCTGT	TGATGCCATG	120
40	GGTTATGAGA	CCATGACACC	TGTACAGGCA	TCGACGATCC	CGCTATTTTG	CAGAAACAAA	180
	GATGTGGTTG	TAGAATCTGT	GACCGGTTcG	GGGAAGACCG	TGGCATTTGT	CATACCTGTA	240
	TTGGAGAGAG	TGATACAGGA	TGATGCCAAT	AGTTCAAAGC	TCAAAAAAGG	CCACTTCCAC	300
	ACCATAATAA	TCTCCCTTAC	GCGGGAGCTT	GCATCACAGA	TACAGGGCGT	GATTGAAGCG	360
	TTTCTGACAT	ACTATCCAGA	TGGAGAATAT	CCTATAAAAT	CACAGTTGCT	TATCGGTAGC	420
	AATACCAGTA	GTGTCAGAGA	TGATGTTGCA	GCGTTTTTGG	AACATAGACC	GCAAAATTTA	480
45	GTTGGTACgC	CTGGAAGGCT	ATTAGACTTT	CTTAAGATGC	CaAAcATCAA	GACGTCTTCA	540
	TGTGGCGCag	CTATTCTTGA	TGAgGCCGac	AaGTATTGGA	TATGAATTTG	AGAAGGATGt	600
	CCAGACaATA	CTGGAGATGC	TACCAAGCCA	A			

1064RP

5	TAGTGGATCC	AGCATCCCGT	CTCGACCAGT	CCTGAGTTCC	GCCGGcTCTA	TCCTAGACCG	60
	CCAAAGCCCA	GcTTGAAGAC	GTACTGGGAG	ATCGTGAAGG	AACCAAACCT	CACTATATGt	120
	TCCCTGAGcA	CAGCGCTAAT	GTTCGCCACC	TACTATGGGT	TCAGCGTCAC	GTTCGCCCAC	180
	TACTTGA AAC	TTGACTATGG	cTTcAGTAAC	CTTGcGATCG	GCGCGTGCTA	TGCCGTGCCA	240
	GGCGTGGCCC	TAATGATGGG	CTCCCTCTTG	GGcGGtCACA	TTTCCGACCG	CTTCCGCAGG	300
	AAGTGGGTAG	CCAAGAACCC	CGGNAAGACC	TtCCCCGAGcT	ACAACCGCCT	CATCTCGCAG	360
	GTGTTtGGcA	TCTGCGTCAG	cATGGCCGGc	TGTaTCGGGT	ACGGcTGGGG	AATTCAATTT	420
10	CACTATCACA	TCGcTATCGc	GCTATTCTTt	TC'TTTCCTAA	TGGcGttGGG	TATGAcCTGG	480
	tGcTCTaAcT	CCACCATGAC	CTtCCtTAcG	GaGTCCAACC	CAAAAaGAGc	TGcCGGtaCC	540
	ATTGCGtaag	cAAcAGcTT					

1064UP

15	GATCTGTTct	CGCCCCCCTA	TGGGCCCTGC	CTGCGGGCAG	AGGGAGATCG	TCCTGGTCGG	60
	CCTAGGCTAG	GCACGGCCCT	AGGCGGAGCT	TGTCCTGCGG	AGGCGCGGCC	GGCTGAGCCC	120
	CGCTGCGCAG	GCGCGCAGCC	CGTGAGACGG	TAGCGGcCCG	CCTAATGCCT	CCTACGCAGC	180
	GACCGCGCAG	CGGACCTGCA	CGTTAGTAAA	AAATCA'TTTT	TATCACC ACT	CAAGATGCAG	240
	TCTgATTGAA	GTGTAAAGCT	GCAGTAGAAG	AGACAAGTAA	GCCATCATGA	AGGTATtTTA	300
20	TAGGTGCTAA	GT'TCCCGATA	CAAAGCACAG	GTGGGCATtC	TAGGGCTGCA	GAGACAGGGC	360
	ATGGGCGTTT	TACGGATAGc	CCgGAGaCTC	CCcATTGGGC	GGGCTTAGCG	GGAGGGTTAG	420
	CGCGNGTTT	GGAAACGAAT	AATGGGNTGC	CANGACGCGG	GCCACGNGGG	GACTGATGCT	480
	TGTT'TTTGTT	TGGGAATNAA	TCTTNATACT	AACAATCCCN	GTNGGNNGGA	CAATTCTTAC	540
	CCCNGTAAAT	NGGTACGCAA	AAGACCATGN	AGGTCCGNTG	ANGACAACCN	NNTCCCNNT	600
	TTCTTNCGAN	A					

1065RP

30	GATCTGTAGT	TTTCGCAGTCC	CTGATGCGGT	CCGCCAGAGC	AGGCAGCGCG	GGCCAGGGTC	60
	TGCGCAAGGC	AGGCGTTGTG	TCACCGCGGA	GCCACTCTCT	GGGCAGGCAG	TTCCACGCCT	120
	CCTGAACGAG	CGCGGGCATG	ATGGGGCCCA	GAATGCTGCG	ATAGGCATCC	AGAATGTGGA	180
	ACAGGGTCGT	CTTTATGGCC	AGACGCCCTC	TATTATGTGG	GGGTTCCATG	TAAAGCGTGT	240
	CCTTCGAAGC	ATCAAAGTAG	AGGGACAGGT	CGTTGCTCAT	GTGGTACAGA	ACAAAGACTG	300
	ATGACATTGG	AGTAGGTCTG	GGATTCCGCA	CAGACCCCTGA	CACTTGGGGG	GCAAAATTCT	360
	TTGTCTTGTC	GAGGGNTTTT	CCCNTCANTC	CCNGGCAGG	TGGGGGCAGN	CTTCCCCNGG	420
35	GCAAAAAAGG	CTNTTCCCCA	CCNAGATNAA	CCCCTGGGAA	ANCCCCGAAGG	TGNCANNAAT	480
	TNAGNGGAAG	TNNCCTNACC	NCTCCACCNA	ATCGGAAAAA	TTGGGGANNA	ANGCCCCANC	540
	CCAACNCCCA	AANTTTTCTT	GGAAAAAAA	AGGGGNGCCC	CACCCNGGNG	GANTNANTTT	600
	TNTCCCCCCC	NATCC					

1065UP

40	GATCTCTTCC	CTTCGATCAT	CCCTCAGTTG	GGTTCTGAGT	CCATCGATGC	GTTGACGCAG	60
	TTGGCCACAC	AGTTGCAGAA	CGCACAGGCT	GCAGCTCCAG	CAACCGAGGG	CCATGAGGCA	120
	GGCGAGAAGA	AGGACAACGA	CATCCCAGAG	TTGATTGAGG	GCCAGTCTTT	CGACGCGGAT	180
	GTGGAATAAG	TGCGCTGTGC	GAGGACTGTG	TTCTCGCCGC	CCATCTCAGA	ATTTGTCTAT	240
45	TTCTGCAGGG	AATATACATA	TATTGAGTGC	ACATATGGAT	ATTATGTATA	TATATGTACA	300
	TACACTATAC	CCGCCCCGTC	TTAGTCCGAC	CACATAAACC	TACGGGTCCG	CGCCCCATA	360
	TCGTTTITACA	ATAAACCGCG	CGNNCTTGCG	GGNNTNCTTC	GANAATCTCN	TTGGGGGGCC	420
	CNCCNNCCNT	TANNAGGTNC	TTCTNCCGGG	TNGGAAGTNA	AAAAGCNNNN	GTTCNGTTGN	480
	NAGNGTCCCC	GGGGGAAANC	CNNCCCCGNG	GNGGATTTTC	NCCCAAACCG	NAGAAACNN	540
50	CNTTGCNCCA	AGTTGCCCGT	GGGAGAAAAA	AANCCNATGN	NGAAGNAAAA	TTGCCCCCTG	600
	CCCN						

1069RP

	GATCGACCCC	GGTCCCGCTC	GCATCAGCGA	GCTGCCCGTG	CCGATCAGCA	GCCCCGTCCC	60
	TAGCGACCCG	CCGATGGCTA	TCATCGACAC	ATGACGTGCC	TGCAGGTCCT	TCTTGAGCCG	120
5	GATGCCCTCG	TGCTTGCCAT	CGTAGTTCCA	GTCTACGGAC	TGCGCCTCCT	GGTCTGTGCT	180
	GCTGTGGGTA	TGCCCGAGAC	CGCGGCCCTC	ACCAGCGGCG	GCCAGCTTGG	GGCCTTTCAA	240
	CTCGTCCAGC	GTGGACGCCT	CTGATGCCCTG	TGCGAACTTC	TCTTCCGCCA	TAAGTGCGBA	300
	GCTGTTATCT	ATGCTACTCA	AGCTCCCGCC	GTATAGCCTT	GCTATATATA	CTTACGCTGC	360
	GACGCCCTAT	TCCGGACACA	GCTATATATT	GGCCCGCGCT	CTCGCGCGCT	GCTTGGGGAG	420
	CCGACTGACC	CCACCCTGAT	AGTGCCGTTG	CACCTTCTGCT	GGGCGCGCTC	AGCCCGTTCA	480
10	GCGTCCGACT	GTGACATCGG	GCTGCGCGAG	CGCGATTAAAT	CACCCGACTG	GGCTGCATGC	540
	CGCACTAAAC	CTCCCTTCGC	GGCGCAGGGC	GCCCTTATCG	CCTCCGTGAT	GACGTACGTA	600
	TGTTTATCAA	AGATCCGGAG	AMCTGTTCCA	GGCTCCTACG	TTGCGATAAG	AGGC	

1069UP

	GATCTTTCTG	CCCTTATCAG	GGATGGCACC	ACCGGTCTTC	ACCTCGTTTG	ACTTGTAGCC	60
	ACAGTGCTCG	CAGACCGTGG	ACATGATGAT	GACCTCTTTG	AAGTGTGGGA	TGTTGACCCG	120
	CTTCATATGC	GTGTACATG	GGTGAACACA	TGATGGGCAC	GTGGCAGTGA	AGGTCTGCAC	180
	CTCGTTGTGG	AAGTTCTCGA	TATCCGTAGC	GTCAGATAAG	AGACCGGCCT	GTGCCGCTTG	240
	CGATTTGTTG	CGCTCGCGCT	GCGACAGCTC	CGCGCGCTTC	TCTTGACGCC	GTTGTCCCAA	300
20	TTGGTCGCGC	GTAATGATGC	CCACCTGGAC	GTTTTGCTCA	TCTGAACGCA	GGTACTCGGT	360
	TTTGGACCAT	TTTGGCGCAG	CTTCGCCTGG	CTTGTAATCG	ATCCAGGAAT	TGCCAGCAGG	420
	GTCGTCCAGC	GTAAAAGTCA	GCGGTAGAGT	GCCCGGCTCG	CACGACAGCG	CAGCGCGGAC	480
	CTTGGCAATG	AACTGCGCAA	TCTGATCGTA	CAGGTTCTCG	TCCACTTCCT	TCCGCGCCGC	540
	CTGGTCGGCG	TCCAAGTCCT	CGATCATCTC	GGTCAGCAGG	CCCTCCACAG	TCGTCAGCTG	600
25	GCCGCGCTTG	GGAAGAATCT	CCAGGTCCAA	TTCAACGAAG	CGGGAAGCCG	CAGTTTCCGC	660
	CTTGATGACT	GCCTGTCAAA	ATCGGCCTTC	TCCTCAACCT	TCAGCTGA		

1071RP

	GATCTGNGGG	GGAAACNCAG	CATTCAACCGT	TGTGCAAAAA	GATTTGACTG	GTAACATCAC	60
30	CAAGCTTCGC	AACAGACAAT	TGTCCGACCC	CGGTGAGTCT	GCAACCCCTGC	AGGAGCTTGT	120
	GATTGCAGAG	CGTGACACAG	GCAGcAAGAC	TGcTTCCGAA	GGGCTGcTGT	GGcTCACCAG	180
	AGCCCTGCAA	TTCAACCGCG	AAGCTCTTAG	AGAAACGCTA	GACCAcCCAG	AGCTCGAATT	240
	GTCTaAGACA	TTCACAGATG	CGTaTtGGAA	GACGTTGACG	AAGCACCATG	GTAaTGcTTGT	300
	aCGTCCGGTT	TTCAAAGCTG	GCCATGAAAG	CTTGCCCCCTA	CAGGAaGGAC	TTTTTtGcAG	360
35	AAACTAGGCA	GcGACCAAGA	GAAGGTTGAC	ACGcAACTTT	AAGCAGtGGc	TGGcTGCACT	420
	TGAAAAGATC	GtaGaGATTc	TgcTTCAaAT	CCCTtGGGGG	AAAcGtGcAA	AGGATTTaTG	480
	AgTaTTaTTa	TAGAAGCC					

1071UP

	GATCGACAGC	CTCGAAGAAG	TAGCCTCCAC	AGCTTCAAAc	ACAGCGCACA	GGTCTGCATA	60
40	CATCACGCTG	GTGCTTGCTG	CAGGCTTAAC	CGGAGAACCT	TGTGCGCGTG	GCACGGCGCT	120
	GGCAGaCTGT	GGCAGCACCC	CCCCCGGCGC	GGGCTTATCT	gCAAGCTCGG	GGAGGATGTT	180
	CTTCACCTCG	GCGTCCGTGT	CATGGgCTGC	CGGTGCCCGCT	AGGCACTCGG	gAGACTCTAC	240
	CTTCGATTTC	TTGACCcTCG	CTGTTGaCGT	CGcTCCATCT	TGAGGcCTCT	TCAGCGCAGc	300
45	GAAGAATCGG	ACCAATGTGG	CCTGCTTCTT	TGGaGtAGAC	ATTGGcCTGA	AGTaAaACCC	360
	TACTGACCTG	CCAAATAGcT	cCACTTTGGT	CTCGCGACAG	GAGCTTCCNA	AGANTGACAT	420
	TNNNTGTNGN	NAAGGCCNNN	NNNTNNCAAA	GACGAANCIN	NTATCAAGGN	CCTNNNTNCC	480
	CCAGNCNNNA	NAAGNAANAA	NNNNATTNNN	GGNATTNNNN	AAATTANGGT	TNNNNNATNN	540
	NC'TTNGNAAA	TTNN'TNNGNN	TTNN'TNATTc	CCNNNGGNTT	TCNNNTTNCC	NCNcNCCTNN	600
50	GGNTTTTTTTN	NANNNNTNAAN	NNNCC				

55

1073RP

	GATCAATTAA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAAATGA	ATACTACTAA	ATCATCATCT	120
5	ATTGAGTTTA	TATTAAATTC	ACCACCTCTT	ATTCAATTCAT	TTAATACTCC	TCTAATTCAA	180
	TCTTAAAAATA	TTCTTAAATTA	TTAAATTATA	TAATAAAAAGT	TAGTGGATAT	AGTTTAATTG	240
	GTA AACATA	TGTTTTAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATTAT	300
	ATCATTAAATA	TAATAACTCT	TTAATTAGAG	TGGTACCACA	AGAATGCTGA	AAGCATTAGG	360
	GGTGTGTACC	TTAGCTCTCT	AATTAAAGTT	ATAAAATTAT	CTTAACTAAT	AAAAATAATT	420
	AATTAATAAA	ATAAAATAATT	AATTAAATTT	AAAAATGTTT	AAAAAAGAAA	TAAATAATAT	480
10	GTTATATTTA	AATAGATCAA	AATTTCAACA	ATTTCCATTT	CATTTAGTAC	TACCATCACC	540
	ATGACCAATT	GTTACATCAT	TTAGTTTATT	AGGTTTACTA	TTAACTTTAG	CTTTTACTAT	600
	ACATGGTATT	ATTGGTAATA	TTTATCCCTT	ATTATTATCT	T		

1073UP

	GATCTTAATT	TAAAATTTTA	ATTAACCTATT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATAAAAT	TAGTAAAAATA	120
	AATAGAAAAC	CATAAGTTAA	TTGATTCATA	AAGAAAAATG	GAATTATTTG	TGGCATCTTA	180
	ATTTTTATTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
20	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTAAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
	ATTTAAATTTA	TATAAATTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420
	TTTCATAATA	TTTATTTTTA	TTAGTCTAGT	AATATTTCTA	TTTAATAGTC	TACCCCTTAA	480
	TTGGATATTA	CTACCTACTA	AATATTTACC	TAATAATATA	TTATTAAGAA	TACTTAAATC	540
	TAATAATTTA	TTATCTAAAG	TATATAAATT	AATTAAATCN	TTTTTTATTA	TTATTTAAAT	600
25	TATTATTAAT	TAGTAAATTA	TATTTATTTA	TTTTATTAAAC	ATAATTTTTT	GNATAATAAT	660
	AT						

1074RP

30	GATCTAAATA	TATATAATTT	AATTTATAAA	GATTAATATA	AACTTTTTTA	TTATAATATT	60
	TAAGTATTAA	ATTATTTAAA	CTATTATTAT	CATTATTTAA	TAAATTAATT	ATTTGATTAT	120
	TAATACTTAT	TATATAATTA	TTATATAATT	TACTTAATTC	ATCATTTATTA	ATATTTATAT	180
	AATTATAAAA	ATAATATTTA	ATATGAATAC	TATTTAGTCT	ATGTTCAAAAT	TTTAAATTAG	240
	TTATTAAAAAT	ATTATTAGAT	ATTATTATTT	TCTTTAATAA	ATTATTAAAT	AGATTATCAA	300
	TAATTAATAT	ATTATTTATT	AATTGTTTTAT	TAAAATAATA	TATTTTATTA	TTATAAAGAT	360
35	TTAATTTATT	TAAATATTTG	AAATTATTAT	TTTTATTATA	ATATCTATTT	TTATAAATAT	420
	TATGTTGATT	TATATTATTT	AACTTTTTAT	AAGAATTATT	ATTAAAAATTA	ATTTTAACTT	480
	TAATTTCTTA	TTATTAATTT	TTATATTATT	TAATAAATTA	TATTCATTTT	ATTTATTTAT	540
	TTATTTAATT	AAATTAATTA	TTTAATTAAT	ATTTTATCAT	TATTTAATTA	ATTAATAAAA	600
	TATTATAAAG	AATGT					

1074UP

	GATCTTGATA	CTAGAGCTTA	TTTTACTTCA	GCTACTATAA	TTATTCCTTAT	TCCTACTAGT	60
	ATTAAAGTAT	TTAGTTGATT	ACTAACTATT	TATGGTGGTT	CATTAAAGATT	ACTAACACCA	120
	ATATTATATC	TATTATCATT	TTTATTTTTA	TTTACTGTAG	GTGGTTTAAAC	TGGTGTAGTA	180
45	TTAGCTAATC	TATCATTAGA	TGTAGCAATC	CATGATACTT	ATTATGTAGT	ACTACATTTT	240
	CATTATGTAT	TAAGTTTAGG	TGCTGTATTC	TCTATGTTTG	CTGGTTATTA	TTATTGAAGT	300
	CCTCTTGTTT	TAGGTTTAAA	TTATAATGAA	AAATTATCAC	AAATTCAAAT	CTGATTAATT	360
	TTCTTAGGTC	TTAATATTAT	TTTCTTCCCT	ATGCATTTCT	TAGGTATTAA	TGGTATACCA	420
	AGAAGAATTC	CTGATTATCC	TGATCTATTC	CTAGGTTGAA	ATTTAGTATC	TTCATTTTGGT	480
	TCTATAATAA	CTATTATATC	ATTAATGTTA	TTCTTTTATA	TTATTTATGA	TCAATTAATA	540
50	AATGGTTTAA	CTAATAAAGT	TAATAATAAA	TCTATTAAAT	ATATAAAACT	ACCTGATTTT	600
	ATTGAATCAA	ATAATATTTT	CTTAATGAAT	ACTACTAAAT	CATCATCTAT	TGAGTTTATA	660
	TTA						

1075RP

	GATCTATCTA	ATTACAGTAA	AGCTGCAAAAG	GGTCTTTTCG	TCTTTCACATA	AATACTTAGC	60
	ATCTTCACTA	AGATTTCAAT	TTCACCTAGA	TTAAAGGAGA	GACAGTTGTT	GTATCATTAC	120
5	GTCATTTCATG	CAGGACCATA	ATTAGTGGAC	AATGAATTTT	GCTACATTAT	AACCCCTCATA	180
	ATAAGGCTGC	TATTTAATAA	AATTTATTAT	TATTATCTTT	ATTAAAAATAT	TAATTTTTTAT	240
	ATTTTATCAT	GGAGCAGAGT	TCACACTTTA	TACTTTAACT	TACGTTTCTG	CAAAGTGTTG	300
	TGTTTTTAGT	AAACAGTTGT	ACAACCTTGT	TCTTATTATT	AATTATTATT	TTAATTAATA	360
	TCTCTTTATT	GAATAACGTC	AGAGCTATTT	TTGCCGAGTT	CCTTTCCTTT	AATTATCTAA	420
10	TTACACCTCA	TATACTCTAC	TAACATACCT	GAGTCGGTCT	ACATTACGGT	ATTTTATACA	480
	TAAATATTTT	TTGAACCTTA	TAAATTTATA	AAGACATTAT	TTAAGTTAAT	TTATATATTA	540
	GATTATTTCT	ATCATATTAT	ATTTTMTAAT	ATATTACTTA	AGAACCGCTT	TTATTGTTAA	600
	ACCTTATGCT	TTAGGTGATA	AGGATTATAC	CTTATTTTC			

1075UP

	GATCCAGTTA	CTTAGTAGAA	TGATAAAATT	AATAAATATT	ATTTATTAAT	ATTTGGTTAA	60
	CAATAAAATT	CAATAATTTA	TTTAAATAAT	GATTAAATAA	TCTCAATATA	AAATTATTAA	120
	TATAATGAGA	TATATATTTT	TAAAAAGAAT	ATATAATTAA	ATAATCCCAA	CCAAAAATTG	180
	TGCCAGCAGC	TGCGGTAAGA	CAANGGGGGT	TAGCGTTAAT	CGTAATGGCT	TANAGGGTTC	240
20	GTAGAATGAT	TATTTAAAT	AATAATTAGA	ATTAATAAAA	ATAATTTAAG	AATTATTCAA	300
	GTAAAGATGA	AATAATAATT	ATATGAATAA	GACTTATAAA	GTGAAAATTT	AAATTATATA	360
	TTAATTGACA	TTGAGGAACG	AAGGCTAAAG	TAGCAAATCG	GATTTCGATC	CCGAGTAGTT	420
	TTAGCAGTAA	ACAATGAATA	CCTATTTATT	TTTTATTAAAT	TAAAGAATAA	ATTAAATGAA	480
	AATTAAGTA	TTCCGCCTGA	TGACTACGTT	AGCAATAATA	AAAATCAAAA	CAATAGACGG	540
	TTACAGACTT	AAGCAGTGGA	ACATGTTATT	TAATTCCGAT	AATCCTCCGA	TAAATCTTAC	600
25	CATTTTTTGA	ATATTTAATT	ATAATAATTT	ATAATTAATT	ACAGGCGTTA	CATAGTTGTC	660
	TTC						

1076RP

30	GATCTTAAAA	TAAGATAGAA	TGGTAATAAA	TATCATTCAG	GTACAATAGA	TGCTGGTGTT	60
	ACTAAAGGAT	TACCTGGAAT	ATAATTATCA	GGATGTCCTA	AAGTATTAGG	TGAAAAGAAT	120
	ACAAATAATG	AAAAGAAAAT	TATAAATACA	AATACTGTTA	CTAAATCTTT	AAAAATAAAA	180
	TAACCATGCA	TTGGTAATCT	ATCTAAAATTA	CCTGTAATAC	CTAATGGATT	TGATGAACCA	240
	TGTACATGTA	ATAGCATTAA	ATGCATAATT	ACTATTGCTG	CAATAATAAA	TGGTACTAAA	300
	TAATGAAATA	GAAAGAATCT	TATAATAGTA	GGATTACTAA	CACATAATGA	TCCTCATTAAT	360
35	CATAGTACAA	TATCATTTCC	AATAAATGGA	ATAGCACTAA	ATAAATTAGT	AATAACAGTA	420
	GCACCTCAAT	GTGACATTTG	TCCATATACT	AAACAATAAC	CTAAGAAAGC	TGCTGCTATA	480
	GTTAAAAATA	AGATAATAAC	ACCAACTGTT	CATACAATAA	CTCTAGGTGA	TTTATAAGAA	540
	CCATAATATA	AACCTTTACC	AATATGAATA	TACATACCAA	TAAAGAAGAA	TGAAGCACCA	600
	TTAAGATGCA	TATATCTAAT	TAATCAACCT	AGTTGTTTAT	CTCTCATAAT		

1076UP

	GATCTAGAAT	TATTAAGTCA	ACTATTAACT	AATATCTATA	ATAATAATGG	TTTATCATTA	60
	AAATCATTAA	AGATAATTAT	TAATAAATTA	CCATTTAATA	ATGATATATT	ATTATCAAAA	120
45	AATTATGTTA	ATAAAATAAA	TAAATATAAT	TTACTAATTA	ATAATAATTT	AAATAATAAT	180
	AAAAAAGATT	TAATTAATTT	ATATACTTTA	GATAATAAAT	TATTAGATTT	AAGTATCTTT	240
	AATAATATAT	TATTAGGTAA	ATATTTAGTA	GGTAGTAATA	TCCAATTARR	GGGTAGACTA	300
	TTAAATAGAA	ATATTACTAG	ACTAATAAAA	ATAAATATTA	TGAAAGGTAC	ATTTAATAAT	360
	TATATATATC	AATGAAGTAA	ATTAATAAAT	TTATATAAAT	TAAATTATAT	ATCATTAAAT	420
	ATTAATAAAC	TTAATAATCT	ATTTATTAAT	AAAAATGGTA	TATTTAATAT	TAAAAATTA	480
50	TTAAATACTA	TTTAATAAAT	ATCTATAAAG	TAATTTCTTA	TTTATTTTAT	AACATTTTAA	540
	AATGTTTTAT	GTAAATAGAA	TAATAATCAA	TTAAATAATA	AAAATTAAGA	TGCCACAAAT	600
	AATCCATTTT	CCTTTATGAA	TCAATTAACCT	TATGGTTTNC	TATTTATTTT	ACTAATTTTA	660
	TCT						

1077RP

	GATCCAGTTA	CTTAGTAGAA	TGATAAAATT	AATAAAATATT	ATTTATTAAAT	ATTTGGTTAA	60
5	CAATAAAATT	CAATAATTTA	TTTAAATAAT	GATTAAATAA	TCTCAATATA	AAATTATTAA	120
	TATAATGAGA	TATATATTTT	TAAAAAGAAAT	ATATAATTAA	ATAATCCCAA	CCAAAATTTG	180
	TGCCAGCAGC	TGCGGTAAGA	CAAAGGGGGT	TAGCGTTAAT	CGTAATGGCT	TAAAGGGTTC	240
	GTAGAATGAT	TATTTAAAAAT	AATAATTAGA	ATTAATAAAA	ATAATTTAAG	AATTTATCAA	300
	GTAAAGATGA	AATAATAATT	ATATGAAATA	GACTTATAAA	GTGAAAATTT	AAATTATATA	360
	TTAATTGACA	TTGAGGAACG	AAGGCTAAAG	TAGCAAATCG	GATTCGATAC	CCGAGTAGTT	420
	TTAGCAGTAA	ACAATGAATA	CCTATTTATT	TTTTATTAAAT	TAAAGAATAA	ATTAAATGAA	480
10	AATTTAAAGTA	TTCCGCCTGA	TGACTACGTT	AGCAATAATA	AAAATCAAAA	CAATAGACGG	540
	TTACAGACTT	AAGCAGTGGA	ACATGTTATT	TAATTCGATA	ATCCTCGATA	AATCTTACCA	600
	TTTTTTGAAT	ATTTAATTAT	AATAATTTAT	AATTAATTAC	AG		

15 1077UP

	GATCCGTGTA	TTTTTTATTT	ACATTATTTA	ATTAAAAATA	ATGATTTAAA	TAAATATTTT	60
	TTATAAAAAA	TAATTAGTGC	ATTGTTACAT	GTTCAATAAA	GAATGATTAT	TATCAAAACC	120
	ATCAACTAAT	TGTTATATAT	TTATTAAATA	TTAATTTTAC	TTAATTAAGA	ATTAGGAAC	180
	TTATCTATTA	GTCTGGGCTG	TTTCCCTTTT	GATTATTAAC	CTTATCGCTA	ATAATCTGAA	240
20	ATATTTAATT	TTAGATTAAT	AATATATTC	GAGATTTAAT	ATTTTTAATA	AAATAAATAA	300
	TTATTTCCCTA	AATAATATTA	ATAACTATAC	CATATATATC	TAATATTTAA	ATAATCATAC	360
	TAACATATGT	TTCTGTAGAAA	ACCAGCTATT	TGCAAAATCAG	ATTTGACTTT	CTCTACTTAC	420
	CATTATTCAT	CAGATAATAT	TGCTACATTA	ACCTGTTCAA	TCGTTTTTAT	ATTTTATTAT	480
	ATTTTAAATA	TAATAAATAT	ATATTTTAAAT	CATTTGATAA	TAGTAAGATC	ATCTGCTTTC	540
	GGGTTAATTA	ATATTAACATA	AATTTAATTT	ATTTTAATTA	ATTTTAACAT	TGTTAAATAT	600
25	TTATATTAT	TTTAATATCA	TTTTTTATTT	TAATATTATG	CTAATATTAA	TTACTTGC	

1078RP

	GATCAGGATG	GCGATGAGAT	ACTACCTTGA	AGCAGCAGCC	TTGACCTCAG	CTAACTCCGC	60
30	AAATTCCTTT	CATTTTTCGA	AAGCAGATTA	TAATTGCTTC	TAAGCCATTG	AATTGCTTTA	120
	CTTTTCCGTT	AATCAATGCT	CTATTTTACC	ATCATTCGAA	GTAAGAGTAT	GTCGATATGT	180
	CTGACCTAAG	CTACAGATTA	TCTAATCACA	TAGTTATGTA	CGAACCAATA	AGATTATCGA	240
	ATTTTCGTTGA	AAAACTCAGG	CGAACGGCAC	AGCGTTGCTT	GCGCCTATTA	GATGCTTTGG	300
	CCATAGCATA	TCACGAAGTG	ACCTCACAGT	TTTTAAGTAA	CCGGAATAGT	CTGTAGATAT	360
	GGTATTGTGA	AAAGTTTATT	NGCTGGTTTC	ACCCCTGGG	AATCTNGGNG	CTGGNCTGGG	420
35	TTCTTAGGTG	GGGAATCCGG	NCCCCCNNT	C			

1078UP

	GATCTCCTTC	CTTCTGGGTG	TCTTGCCAAG	CCCTTATTTG	TTGACCAAAG	TATCTCTCAC	60
40	CGTTGCCCTG	TACTCTGTTT	TCATAAAATT	CCGCGGTAGG	ACACCTCTGG	GCTTCTCTTT	120
	GGCGATCTAT	GAGGGCTTTG	CAATCATCTT	CACCGCCGCT	AAAGTTTTC	CACCATTTT	180
	GTATGAGCAG	CTACTTCAGT	AAGCCCCCGT	ATTAGGATTG	TTAAAAGAAG	TAGGATCGAT	240
	ACCCCTCAAT	TCCAGATGAT	CGTTGCGGTG	GGCTATTAAT	TTGTTAGCCA	CCTAATACTG	300
	AAATTTACAT	ATTATTGCAC	TAGTTAAITTA	ATATTTATGA	TGCAATGGGA	ATCTATATCG	360
45	GTTCTCCGTT	CCATCTTCTC	GTAATTAGAT	CACGTCGGAT	ATNGTNGCCC	CGTACCGAGG	420
	AGGGACCCGA	TTGGGNTTAT	CTTTATGGTC	CCGAGAANTN	ATAGAGNGCC	NNAANATAGA	480

50

55

PAG1078i1

1 GATCTAGTTC GTTAACTTCC GCAAAACACC TGTCAAGCGC TTCAACAAAC
 5 51 GTCTGGATCA GATCCAAGAT GGCCAGTTCT GACTCCTGGT CGTCGACAAT
 10 101 GAAAGTAAAA TAGAGTGTTG CATAGTTCTT GTAGATTATT TGGATATCTT
 15 151 CGTTAATGGT TTCACTACCA CTCGATAGTA GCGAGGGCGG CGTAATTAAG
 20 201 AATGAAGACT GAATTGAACT GTTGCGCTGG CTGATCAGCT CGTAAACCTG
 25 251 CTCCAGTAGT AGCTTCTGCT TCGGGAGATC GACAGGAGTA TAGTACTTTA
 30 301 CAAGCCTAGG TTGGCACTTC TTGTAACTT CATGTGTTAG TAGGATAATT
 35 351 TAAGTACTGC GGCTGCGCGG TGGCAAAGGG GTTCACCCAT ATCAGGACGG
 40 401 CGNCGNNTCA TCCNCGTCC CCACCACGGN TACNCGCCNC NCGG

Pag1078i2.

1 GATCTAATAT TCAATTGGCA AACTCTTGAG AGTGTCTTGG AGGAAATTAT
 5 51 TCAAGGGGGT ATGGTAATTG AAACGAACGT GAAGAAAATT GTGGAGACCG
 10 101 TCGACGAGCT CAATAGAACT TCTAACCAGG AAGCCAGGTT TGGGAATGGA
 15 151 CTAGGAAACG CTTTTCAGGC CATCACCATG GGTGGCTTTT CAAATTGGGG
 20 201 TGC GCGGCAG TGAATATTAG CACACACTGT CTTGAAACCC CATAATAAAT
 25 251 GAAATAAATA CTCCTTGCTA GTGTCTAAGT ACGAAACAAC GCCAAGGCTT
 30 301 TTGGATCATC TATGTACGCA TTCAGTTCGG CAGCACTCAC CATGGGCACC
 35 351 AACTCTTCTT ACTTGCTATT TCCTGTGTCT TCATTTGCGC TTCGGCTGCC
 40 401 TGATGGTCTC AAAGCTCCTC CCTAATCCTC TGTAATTCTC CTG

1079/RP

1	GATCGCTCAT	TATTTTTGGT	CGGAGCCTGG	GCCCTCTTCT	GCTTCTTCTC
51	AAATACCTTC	AAATTTTCGT	CTATATAGGT	CTGCAGCTCT	TCCTTCTTCG
101	AACATTCCGC	CTTGTGAAGC	TGGTTGAAAT	ACTGCAGGGC	CTCTGCACTC
151	ATGCGATTCA	CCATTGAATT	GCGCTCTTGT	ATCTCTTGCT	GGAAGTGTTC
201	TTGTTTGCGA	ATGGCGTTTT	GCCGCAGTTG	AGCTTGCAAA	CTGGTTGTAT
251	CAGACTCGTC	CAC TTCATCT	TCCACGTCCA	GTGGATCCAT	CCCTGCAGCT
301	AGTCTAGGTG	GAGTGGTCTA	TGTACAGTGC	TGCTGTGCGT	GTTAGCGCGC
351	TCACCTTCTG	CGACTGTTCA	AAGATGTGCG	TTTCCAGCAA	GAAAAGAGAC
401	AACCGGAAGT	ATAAGTACAG	CACGCGAGCC	TAATTTTGTC	AGCTTGCGGA
451	TTTAGCTCAG	TTGGGAGAGC	GCCAGACTGA	AGAGAACTT	CGGTCAATCG
501	TAACTGGAA	GTCC TGTGTT	CGATCCACAG	AATTCGCATA	TTTTTTGCTC
551	ACGTCACCCA	CCGGGTANGA	ACTGGCATTG	CCTACCTAAT	GGCCAGCAGT
601	GGAAAGCGCT	CTTGTGATAT	ATATATATCA	AGTAACACAT	CTATGTAACC
651	TTT TGACACA	GTCCCAAGGT	GAATCTTGCC	TGGATCTGC	CTCATCTGAR
701	TCC				

1079/UP

1	GATCAGCGAG	CTAGGTACCC	GGACGAACAT	GCCGTTGCGC	AGCTTCCCAT
51	ACTTCAGCGA	CCGTGTGTGT	AGCGCAGAGC	TTCCGTCTCTG	GAATAGCGAC
101	TGCACCTCTG	CGTTCAGCAG	ATCGCCCTCT	TTCAGAAAGC	TGCGCATCTG
151	CAGCTCATCG	CTCTCAGACT	TCCGCCGCAG	CACGCCGCCG	GGCAGGTTCA
201	CAGAACCCAG	CATGAGCACT	GCGTGTCTGT	TTCCGCCAAT	ATCCACCTTC
251	CATCGTTTGT	TGCCGACCTC	CACGATCCTG	CCGACAATGT	GGTCGCCCCG
301	CTCTGGCGTG	TACCGCCCCG	GCCAAGGAAT	CACCGACAGG	AGTCGGTTCA
351	CCCTGGAAAC	GGTGGCCCCG	ACCGACGAGT	ACGTTTTGTT	CTCCAGGAAG
401	TATGTGCCGT	GGCCTCGCAT	CCACACAGGA	TCATCTGTAA	TCAGCTCTCC
451	TGGCGTCATA	ATCACCGACG	AATCCGCTCC	TTCCATCTCC	ACGTCCAAAT
501	CAAAC TCTTC	TTCTTCATCG	TCCAGGTAAT	GGCTCCGATG	GAAGTGAAC
551	CCACGCCGCT	TGCGGATCGT	TATTACCTCG	CTCATTACTG	CTGAGACGAC
601	ACGTTTCARA	ACTTCAGAGG	CTCGCTAGGC	CAGGCGAAAC	AGTGT TGARG
651	ATACGCTTTG	TTACTTCTTG	AAG		

1080UP

	GATCCGGCCCA	CGCATGTATT	CCACTATGTA	CGCTATATCG	CGGCCTCGCC	TCCGTGCGGG	60
5	GCACCGCCTT	ACACCTCAAA	GCCGCAGCCT	TTTCATGCAGC	CCTTGTTACTT	TTGCACCAGT	120
	TCCTGGCACT	TGACCGCATC	CACGCCGTTG	AACAGCAGAC	AGCTGTCTCT	CGCTTCCTTC	180
	TGGGGCTTGC	ACACACAGCA	TGGCTTTGGC	TTGTCCGTAC	TACTACCTTG	TGAAACACCT	240
	GGCACAGAAG	AGGATTCAGG	CATGATTAAT	GCTACAGTTC	TTGGAGATCT	TCCAACACCG	300
	CCCGCTCCTT	GGGGTTTTTC	TCACTTTTATT	TTTGCTTCAA	CGCGCAAAAA	TTGTTGTGCA	360
	ATTACAATAT	ACAGAGGCGC	AGTAACCCCT	TTAGTGGCTT	TTTGGCTTCT	TGGGCTGGAA	420
10	ANTTNGACCC	CCCAACNTNC	C				

1081RP

15	GATCTTTTCGC	AGTGACTAGT	GCATGCGGCT	ATTTAAAAAG	TATCGAGTTA	CCCTTGAAAA	60
	TTTCAGCATT	TATAGTACTG	ACGGAGCCGC	TACAAAGCCA	AGGCTTTGAA	GGTACTAGGA	120
	GACATATTCA	GGCGCATAAA	TCACCGCAAG	CTGGATTGAG	CGATGTTTGT	GGTGTGTTT	180
	ACAGGAGCCA	GCGCGGTGGC	ATGCGTTTTT	GCGTATGGGA	TGGTGGACCG	ATATCTCTCC	240
	TTCAAGCTGC	ACAGGCATAC	GCACCCGTTT	GTGTTGGTAA	CACCTTTTCGC	AAATATGACA	300
	CTGTTGCTCT	CGATCACATA	CCTGCTTCCA	CTCGATGTGT	TTTACTCAAA	CCAGACAAGC	360
20	GGGCGGGAAG	ACGAGCGGCC	AGAGCTGCCG	AACCTCGCGT	TGTTCTGGGC	GGTGATCTAC	420
	TGGGCGGAGT	TTGTGATATG	CTGGTTGGTG	TTCCCGGTGC	TGATTTTCGT	CGTGGATCTC	480
	AAGTACTTGT	ATCCGCGCGA	GCCACAGGAG	CCGGGGCGGC	GCAGCGTGCT	TCCGCGACTG	540
	CGANGCGCCG	TTATATGCAA	TCTCAAGTTC	TATGGTCTTT	GTCTACTGGG	GGTGATCTGC	600
	NGGCTGGTAT	ATCTCAAGAC	GACGACCGAT	CGCGGGCGTC	AGAC		

1081UP

	GATCCAAGAC	GAGCTGCGCC	AGGGGAGAAA	ACCCCCCAC	ATATGTCCAG	CGATACGCTC	60
	AGCATGGAAA	ACCCAACCGT	GGACTTGCGC	TCGTAGTTGT	GCTTGGCCTG	TGCGATATAC	120
30	TTCAGCACAG	ACATGATGAT	TTTTATAAAG	TACAGCACAT	GGCAGTAGAA	CAGTGTGAC	180
	TGATTGTTCA	ACCCTGTTTG	CGTAATGCTA	ACCACATATT	GCACTGTGCC	AATGCAAAAA	240
	AGCCCGATGA	ACAACATGCAT	CATCTTCCGG	TGCGCTGTGC	TCATCCATAT	CGCCGGCTCT	300
	CCGGTGAAGC	CCCATAGTCT	GGTGCCCCAT	AGCACCTGCG	ACGCCAGCAG	TCCGTAAAGA	360
	AGCCAGCTAT	GCATGGCATA	CCAGTAGTCC	GACCACCCTA	CCGACGGCCT	CACCGCGCTG	420
	GACGTGTGCG	CTTCATTCTG	CCAGAGCACG	TCTGCACAAC	CAGCGAGAGT	ACTAGCGCTG	480
	TATACCCGAT	GCAATTAAAC	ACCACGTAGC	CTTTCGACAA	TGCTCTTGCG	CTCTGCCGCT	540
35	TCCAGTTGAT	CCATAGTGCG	GGATACATCG	ACACCGACCA	ACATGTGCGG	TACAAGTATC	600
	CGAGCAACTG	TCTCTTCCTC	ATTCCAGCCT	CGTTCCAAGT	GCTTCTACGC	CGGTCTTCTG	660
	GCGTCAGAT						

1082RP

	GATCCACGAG	CAAACATATTA	TTAGGCGCCC	CCCACCCAG	TCTGCAGCAT	TCGAAAGCCT	60
5	TCCTAGCCTT	TGTGCGATGT	CCCAAGGTAC	AATTTTCTCG	CAGCTGAAAA	TACGAAAGAA	120
	GCGCCAAGAA	GTGGCCTTCT	TTGAATCCAA	CGCCGACGCC	AATGATGTCT	AGGCGGGCGA	180
	ACATTTTATA	ACAGAGCTCG	ATAAGGGCGA	TAAGCGGCTC	GGCCTGTTTT	CTTCGATCGG	240
	CTTGATATGC	AATANAATGC	TCCGGACAGG	TATCTTTGTC	GTTCGCCGCA	ANATCTTCCA	300
	GTTGACTGGC	TCAGTATACT	TTGCGCTAGG	GTTATGGGTA	CTAGGAGCTT	TAATTGCTCT	360
	AGCAGGTCTT	TATGTTTACA	TGGAATTTGG	AACTGCAATA	CCGCGGAACG	GTGGCGAGAA	420
10	GAACACCTT	GAGTTCATCT	TCAAGAAAAC	GAAATTCCTC	ATTACGTCAA	TGTACTCAGC	480
	ATATGTCATC	TTTTTAGGCT	GGGCCGAGG	TAACTCTGTG	ATGGCAGCTG	CAATGTTCCCT	540
	TGATGCTGGA	AAGGTGGAAG	CAACACGTTG	GCGTTGAACG	CCGTCTTGGA	GTTGCGGTCA	600
	TTTTCTTCTG	CTTCCTTGTC	AACTCTCTCA	GTGTCAAAGC	TGGGTTGTTA	CTTC	

1082UP

	GATCCGCAGC	TTCCGGCAAGC	GCCGCTTCTC	CTCCGTGTAC	TCCTCGTCGT	CGTCGTACTC	60
	CGGCACCATC	GACGCCTCCG	GCTCCTCCTC	ATCCGCGCTC	GCGTCCTTCT	CCTCGTCCAC	120
	CGTCTCCGGC	AGCAGCGAGT	CGTCCTTCCG	CCCCGTCTCG	TCGTCTCGTC	GCTCCAGCAG	180
20	TGCGCCCGGA	AGCGGCTGCT	CGTCCGGGAG	CGGCCCGAGG	TACGGGTACT	TCACCGGCCG	240
	CATCTCCCGC	TCAATCCGCG	GGATCACCAC	CTCCCCGACG	TACCGGTCCA	TGATCTGCGC	300
	ATAGTGGTAG	ATTTCCGACT	CCTTCGTGTT	GTACATCCGC	GCGTTCCACG	TGATCCGCAC	360
	CAAGTCGTTT	ACGAACTCCT	GGGCCCGCTT	GTAGTGGTTG	AGCTTCTTTT	TCACCGTCCG	420
	GAGGCTGAGC	GGCTTCTTGA	TGATCCGGTA	GTAGTCGGGA	TAACTCCTCC	TCAGCGGCAA	480
	AGTGTAGAAA	ATCGGCAAAA	TCTCAATACC	ATTTTCTCTC	TTTAAGTCAA	ACACGCCATC	540
	CAACAAAAC	TTGAGCTGGT	CCCGTAGCAA	CATCGTTAGC	CCTCGCCACC	TGAAAAGCTG	600
25	AAGACTTTGG	TAGTGTACTA	TGTGTTCCGA	AACAACATCC	CACGCGTCGT	TTCTGCCCCG	660
	TCACAGCCTT	GCTTCAAGTT					

1083RP

30	GATCATCAAT	TTCTTTTTGG	CTGTTTTCTT	ATTTACAGCC	TCTATTTCTG	AGCGAACATG	60
	CGACGCCACA	GCAGTCTTAA	TGAGCTCATC	TGTTAGTTCT	GTTGCAACCG	CGTTACGCAG	120
	TTTATTTCCCT	TCTATTGCTT	TGGAGCCAGA	ATCTCTAGCT	TCATCTTGAG	CGCTAGCTTC	180
	AGTTTGGGCT	CCCAGTTTTA	AAGCTGTTTG	GTTAAAAATGA	AAAGTATTTT	CCTCTTTTAG	240
	CTGGGAATTT	CCAGCAAATG	GTTTTCTGTG	CGATGACTCA	AACGGTACAT	CTTTTTTTAGT	300
35	TTTTGTTTCC	TCTAAAATAT	GCGGTGAGGT	TGTAGAGCCG	ACACTAGACA	TAAATGGTGC	360
	CGTAAACTGT	TTCTGTGGACT	GCAGATCAGA	CTGTTGCTGT	GGCTTGAAC	GCATGTAGTA	420
	TTTCACTTCA	CTTCCAGCGC	GGGATTGGGT	AGTGGGTTCT	GTAGTCTTAT	AATCTCCACT	480
	ATCGAAGTTG	AAAGTTTTAG	ATATATCTCT	GTGTTCTCCG	TGCAAGGAAG	AcCCCTGCTC	540
	AATGATGCTT	TCCGAATATG	TGGGTAGATT	TGAATCATTG	CTCCCTAGNA	GCAGCATCAT	600
	CCTCCGAAAG	AGA					

1083UP

	GATCCTGAGC	GGTGCGGACG	AGGAGGAGCG	CGAGGAGGAG	CCGGAGGCGG	TTGTGGGGGA	60
	AACCGTGAGC	CGCAGCGCGA	CGGGCGGGAC	GAAGCGGCGC	TTTGCGGATG	AGGAGGCGGA	120
45	GAAGGCGGAA	GAGGCGGCGA	CGGCCGCCCT	GGACGACGAG	GAGGCGCCCA	AGAAGGCGCG	180
	GAAGTAGCGT	AGATAGAAGG	ATATAACTGT	ACAGTACCAT	GCAAGACGAA	TCTGAGGCCG	240
	GCGGACGCGC	GCTGGCGCGG	CGCCGCGGTA	GCTGCGGAGG	GCAGAAAAAA	TCGCCGTCCA	300
	CAATCTCTGC	GTCTCATATC	CGGCCAGAGG	ACAAGATGGC	TGGCAAGAA	ATTGCGGGTG	360
	TGCTAGGCGC	GACGGGCTCC	GTGGGGCAGC	GGTTTATCCT	GCTGTTGGCG	GACCACCCTG	420
	ACTTTGAGCT	GAAGGTGCTT	GGGGCATCGC	CGCGATCCGC	TGGCAAGCGG	TATGCGGACG	480
50	CGGTGAATTG	GAAACAGACC	GAGCTGATGC	CGGCGTTTGC	CQAAGACATC	GTGGTGAACG	540
	AGTGCAAGGC	TGAAGCATTT	TGCGGCTGCG	ACGTTGTGTT	CTCTGGGCTC	GATGCGGACT	600
	ACGAGGCCCC	CATCCAAGCG	GGAATTTGCC	GACGCCSGAC	TGGCTGTTGT	CTCGAA	

1201RP

	GATCTTCGAG	ATGAACCCAA	TATGGAACAC	GGGCTTCGCC	AGCTCGATGT	CCCCGAAGTG	60
5	GCCCCGGGAG	TCGTTTCATGC	CCTCGCCACA	CGTCTGACAC	TTGAAGTTCC	GGTCGATGGA	120
	GCCCAGCCGG	GGGTGCTTCA	GCCCTCCCAC	CTTTGCGCGC	ATCTGCGTCT	CGTCCATCGT	180
	CTCTGGA AAC	TCAATCTTGG	CCACCGAAAT	CGCCCGCACC	TCTCGGGGCG	AGAACAGCCC	240
	AAACTGCACC	TCCCTTGATGG	TCCGCAGAGG	CGCGCTCGAA	TACGGAAGT	CCACCATCGC	300
	TGTGTCGTAC	TACCGCTCCC	GGAGATACAC	CCGTTTGCAA	GTTCGTGTGT	GCACCTGACG	360
	CCCAGCCGCC	ACTCGCAATC	CTCGTTTACG	CCGACCGCTT	TGTTTCGCTC	CCTTGCCGCA	420
10	ACAACGAAGC	TCGTATTATAT	GTGCCCGCTC	GAGACCTTAA	GCCTGCTCCT	GTCGAACACA	480
	CGCTCACGCC	CAGAACTCG	TGTCTTTACC	TTGCAGCTCT	GGAAATTGGTN	CGCGCCAAAC	540
	CNGCTTATTG	CTTGGGCGAA	CNCCATATGCT	CCGTGTNATC	TCAGCTGGAA	TNCAACANAA	600
	ACNGACCCCC	CACCTACCCC	NCAACTCTGG	TTATTGGATT	TTGCCGGGAA	TAAACNCANT	660
	GTTCNCAATC	CTTNCACCCC	CAACTGTGTG	NTCCNCTGTT	CNGTNCNCTN	TTACTCMTNA	720
	CCCTCCNACN	CCAATTTTTT	TTNCCCGTTG	CCCT			

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1201UP

	GATCCTCCGA	TTAGCCTCGT	CTTAAAACTC	AACCAAGCTG	CTCTGAAACA	AACAACACGT	60
20	ACCACCTCTG	TGTTGTTCCCT	CTGCGCTTGT	TGACCGTCCC	GCAACTACTA	TGTCGTTACG	120
	TGTGTTTTTT	CGGGAAACTT	GCCACCGTCT	CAGAAATCAGA	GGCTGTGAGA	TTCTTCTGTC	180
	GAAATATCGCT	CTGGACCTTC	GCTTACGTGC	GCCCGGCCAG	TGCTCTTAAC	CGGCGCGGTA	240
	GCCCCCGGCC	CTGGCCGGTA	CCAACAAGCA	TGGCAGGAGA	CACAGAGTAC	TACAAGCAGG	300
	CGGTGGAGGA	GTACCGCGCG	CTCAAGCAGG	ACACGGACCC	GGAGGAGTGG	GACAGGCGGA	360
	TCCGCGCAGC	GGGCTGCTAA	GTCGAGAATA	TGGCGCTGCA	GCTGTGCCAC	GCGGAGACCG	420
25	GGGACTGGCG	GGCGTGCGCG	GCGGACATGG	GCGCGTTCAA	GGCGTGCTGG	GCGGCGCAGG	480
	CAACCGCGAG	CGCGTGACGC	ACCGTGAGCG	GTGAGCTGCG	GGCTGTAAAT	AGGTGTATCT	540
	GGAGGCGTGT	CACGTTGACA	CTGGACACGT	TACGAANCAT	TNTCNGGNTN	GGCCNCCGGA	600
	ATGGCCANCC	CCNATCTNAN	NACCCAAACN	GGGGTATGAT	NTN		

30 1202RP

	GATCGAAAAC	GCTGCCACCG	AAAGCTTGAC	ACTGAAGGGA	TTTGAGTATT	CTCTTGCAAT	60
	TTCCAAGGCG	AATACCAGCT	TGTCCAGGCG	TGCCGATCCA	ACCTTCCCTT	CCTTCAGGGC	120
	CTGCTTGATC	CTGTGCTCTA	TCTGCAGCTG	AGGTAGCAGC	TCTGTGATCA	GCATGACGAC	180
35	GGCCAGCGCA	GAGGTAAAAC	CTTTCAGAAA	GGCCTTTGAG	ATTGCATTGT	CGATGAAACC	240
	GAGCCTGAAG	ATGCCCATGG	CGAACACCAG	GACCCCTGAT	ATGCATCCGA	TAACCGCAAC	300
	GGTCATCAAC	GGTTCGAAGC	ACTTGTGCGC	CCATGCATCG	CAGCTCTGGC	CCACCACAAG	360
	GGACGCAACC	GCTTGGCGCC	CTACAACCAT	CGTCGGGACG	CTGCCGAAGA	CTGCATATAT	420
	CAGTGGGGGG	ATCACCAAGT	CGTACAGCCC	TGCGTATGGT	GACACATGTG	CCATAGTGGT	480
	CAGCGAAATG	GCCAGCGGTA	TCTGGAATGA	CGTCAGCGTC	AGCCCAGCAA	GCATGTCTTT	540
	CGCATTTCCC	CAGAATACTC	TGGCAGCCAG	CGTATAATGG	GCCGTAGTAA	GACNCATAAA	600
40	ATTTNTTTTC	TNCTTACCGT	TGTCTNTTTA	TNGNCTGTAC	CCCNATACGAC	TTGTCTANAAG	660
	CAGNTNCCCC	CCGCCCGGAG	ACTTCCANCC	CNTCCCTACT	CCCAATTTGG	ACCANGACCC	720
	GGTTCCCTGGT	GCTTN					

45 1202UP

	GATCGCCGCC	GCGCCCCAGG	ACTACGTGCA	CTTTCTCTCG	CTCACACACG	TACTGGACGA	60
	CCCGCAGCAG	CCCGAAGCGG	ACTGCGTCCA	GCACAGCTAC	ACGCCCCGATC	CGCTGCAGCT	120
	CGCGTCTTAC	GCGCACGCCC	AATGAGAGCT	CATCGCTCCC	GCGCAGTGCG	ATTTTTTTTGC	180
	CGGCCGCCCC	CAGCGCTCCG	CCTGGCCGTC	ACCGAAGCCC	CAGCGATGAC	AGCCAGCGTC	240
50	CAGGATATCG	TGGTGCCCCAC	CGCCGCGCAG	AGCGCCGGCG	GGCGCGACGG	GCGCCCCAAC	300
	CAGGCGGTCA	CCCTCCCGCT	CGCGCTCGAC	AGCGCGACCG	GCGAGGTGCT	CGTGCGCAAG	360
	GCCACCGGCA	AGACCCGCGT	GCGCAAGGGC	CAGACAGAAG	AGCAGTACTG	CGAGCAGCTG	420
	CAGCAGTACT	TGAGCGTGTA	CGGCGGTCCC	GAGTGACCGG	ACGAGGGGCTG	GCTCGACCGC	480
	GCGGCGCCCG	CGGCGCGCGC	GCGCACCAAG	CAGGAGCGCG	AGCGCCTCGC	CCGCGCTCTA	540
	CCAACGCTTC	TACTTCTCTG	GCCGCCGTGC	CGAANCCGCC	GCNNTCGCCC	GCCACTGCTG	600
55	TATACGTTCC	CNGNTCNGGG	CNCCTNCCNA	TTNGCGCCCG	AANTNCTCNA	NCTCBBNNCT	660
	NNTNTCTNNCN	GACCCNNNNN	CCCTTAATTT	TTCTNTTNNN	NNTTTNTCTT	TTCCCTTCCC	720

EP 0 866 129 A2

NCTGTTACCC TCNCTNCNTC CNTGGTNNTT CCNTTTGGTG NGCTNTCTTC CNTNCTC

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1203RP

	GATCAAACAG	CTGCAGTTGT	TGAAAAGGTT	GCTTGAATCC	AAACCAAGGA	AGGACGTATT	60
	TTCGTTTCTA	GGCCTGGATA	ACTAATCTCT	TCTCCACTCT	AGCTGGGGAT	AACACCTGCA	120
5	GGACGTGAAC	TAACAAGTTG	ACTACTATAC	AGCAAAATAA	CTCGAACAAG	TTATACAGAA	180
	TTTTGTAAAT	ATATTATAGC	AGCCCTATTA	CTATAATTCC	ATCATTTGTT	AACGCTTTAG	240
	CCTTCGTTCT	CAGACTCGTC	GTCAATTTCT	TCATGATAGT	TGATATTTTT	GCGTTGCCTT	300
	GAGCTTTTCC	TTACTGGGCC	TGCATTGAGG	CTCCTACTCT	TTGGCCTGTA	GTCACCTGCA	360
	GAGCTTGGTG	TATCTTCGTC	CTCGCTTCCC	TCATCGACAA	CTTTGCGCTT	CTTCTTAGTT	420
	TTAGATGAGG	CTGATGATGG	CCGTTGCGCT	TCTTGAATTC	TCTTCCTCTG	CCCTTGGCGA	480
10	TGTTGAATTG	GCGCGATTAG	AGAAGCGCGA	TACTTTGGCC	CTTATATTTA	CTGTCAAGTG	540
	TTCAACATGC	TGGTCTGATA	TATAGCTCAT	GAACGCGTTT	CTTTGCGCCT	CTTCCCATAT	600
	TGGGGAATGG	CTGATAAAGT	TCAGAAGGCA	GATTAGCTCC	CAGGTAGACT	GGTAGATTCC	660
	ACCCCGCTTG	GTTTTAGCTC	AAANATNATC	AATTGGCAAC	CNGCTAGANA	TAATNTNTGA	720
	ACATATGCTC	CGTGTNGGAT	CCGNTGCGAT	CTCCCC			

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1203UP

	GATCATTGGC	TCGCTGCTCG	GGGAGACCAT	CTCGGAATGC	GACACTGTGT	CGATGTCTGT	60
	GCTGCGGAAG	ATCTTCAACA	AGTTTCTGAC	ACACGATTTT	GGCCCGCTGC	GCTCCCTGCA	120
20	GGCCTCCGCG	CGCGACCCGG	CTTTTGATTT	TTCTCTGACG	ATCTGCCAGT	CGTACAGTAA	180
	CCGACTCGGG	CGGCAATTCA	CGAAGTTCTA	CTCCGAGATC	CTGTACGGGA	TTACGAACCC	240
	TGGCTCGGCC	GGCTCAGGCG	AGACCGCGGG	CCTGCAGTCG	ACACTTGAAGT	CGGAGTTCAA	300
	GACTCTTCTG	AAACTGCAATA	AACTTACGGC	CAACATATGG	GAGCATGTGC	CGGAACTGCT	360
	GGGCTCCGTC	TGCGGATTTG	TGCATCAGGA	GTTATGCTCA	GACAATGTGC	CGCTGCGAAT	420
	TGGGGCTACG	CGACTTTGTAG	GTGATTTGTT	AGCCGCAACC	TCCGCTGCCA	ACTTCGTAC	480
25	GATGCATACG	GACACATATA	ATGCCCTGGAT	GTCGAAGATA	GCGGACATAG	ACGCCACGGT	540
	GAGGCGCGAA	TGGGTGAAAG	CCATACCTAA	GATACTGGAT	AACAGTCTGA	TTTGGCAACA	600
	GATATCTGCA	AAGGCTCAAC	AAGACACTAA	TGGATACCGA	CGATGTGGTT	AGACTATGCA	660
	GCTTAGAAGC	GCCTGAAAGA	ACTACAGTCC	CCACGATTCT	GGGANATCTC	AAAATTCCAC	720
	TTNTTCCNAA	TTGTTGCGCC	TACCCAAANA	AAACNAANCT	TAGGAACTTT	TCATTTGTAC	780
	C						

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1204RP

	GATCCGCTTG	GCTAGGTCCT	CAGCCGGCAT	GTCGTACCGG	TATAGGGCCT	CGGAGCCAAC	60
	TAGGAAGCCG	CGCACCCTGT	CCGACTTGAT	CCATGGCAAG	TAGGTCTTGA	GCGCATCCTT	120
35	CTCCATCGAA	AAGTGAGCGT	CGTCGTCTGG	CCAGACACCG	ACCCATAGCT	TGAAGCCAGC	180
	ACGGTCCGCA	GCAGGACCCA	AGAAGTGCAA	CGGTGTCGAG	TCAGAGGTAG	AGTAGACTTT	240
	GACCGTGCTC	GTGTAGGGGC	GCAAGGCCTC	GAAGTCTGCG	AGGTAGTCCT	GAGTGTACTT	300
	GCAGGTACCG	TCGTGCTTCT	TCACACCTAG	GTTGAAGGCC	AAATCGCCCA	TAGCGTGTAC	360
	AGACGAGGCA	CCAAGCAGAG	CTGCGGAAAC	AGTGGCAGAG	AAACGCATAG	CTAACGAATT	420
	GATGGTGAGT	TAGTCTGGCT	AAAGTGGCTT	GTACTGGAGA	AACGACAGAG	AGGGACAAT	480
40	ATATGTTAAT	ACCAGGTCAG	CGCCATCTGC	CGGAGGAAAA	AGAAATGTGC	CGCGTGTTC	540
	CGGCACCTTC	CTTAATTTAG	AAGCATTATC	TATCACGTGA	ATATCACGTG	AAACACGTTA	600
	AGCCTACAGA	GAGCTATTGA	CGGTGGCTCG	GAACACGTTA	GCACTGAGTT	ATGTACTAAG	660
	GTGGCCACGC	ACCATGCAGC	TGTCTTCGAT	GCAATATAAC	CCCCCGGGCC	CCGGCAGTCA	720
	ACCGCCATCA	AAAGTNCTGN	CCCCGAGNNC	CCTCAAATGT	CCNTG		

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1204UP

	GATCAGGAAG	CAATAGGTAC	TCAATTGCGG	AAGATTCAGA	GACAGCAAAG	GTCAAGTGCA	60
	GTTCAGCAAC	ATCGAATCCA	CACAAGTTAT	GTCGTACAGA	GGCCATAACT	ACAACGCAAT	120
50	GGCACCCGGG	GGGCAGACGT	TCTCCAACAG	TCCATATACG	AGCAATATGG	GGTCCACGGG	180
	GGCTCGCGGG	CGCAGCTCAG	AGCTGTTCCA	GAAGTTCGAG	CGATTTGCGA	AGCGCATAGA	240
	GGACGTGACG	GACCACCCGC	TGGTGCAGCG	GTTGCTGCGC	TACACACCGC	TGATTGCGCG	300
	GTTTTTTATT	GTGGCCACGT	TCTACGAAGA	CTCGATCCGG	ATTCTGTGCG	AATGGCCGGA	360
	GCAGGTGTCG	TTTCTATCCT	ACTACCGGCG	CTACCCCGGA	GTTTTCTGTAG	TGCTGTTTTT	420
	GATGGTGGTC	GCGGTGCTGA	TGATGGTGGG	GGCCACGATG	ATCCTGCTGC	GCAAGCAGCA	480
55	GCTGTATGCG	ACTGCGATCC	TATGCGCGTG	TATCATCTCC	CAGGATTTGT	GTACGGGCTG	540

EP 0 866 129 A2

TTCTCCGGCA	CTCCTTCGTG	TTTGCGGAAT	TTCAGCGTAA	TCGGCGGTTG	CTGATTACTT	600
CCGTGACTCC	ATCCGTGCAG	AAGCGCATCA	CATTCCGGCAT	GCTGCCGGAG	CTAACAGCAG	660
GAAGGCGCAC	CAAGGCTACA	TCCTGCTTGC	GGCCGCATAT	CATAGTCTTA	GTTTGTGACT	720
TTACCTCCGC	AAACTGGTGA	CGNTTCCTCN	CCTCGCGNAC	GGTNCTCCCC	TCGGTN	

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1205RP

	GATCGCACTT	CAACCCATTC	AAGAAGACGC	ACGGCAGTCC	GGAGGACGAG	AACCGTCACG	60
5	TGGGCGACAT	GGGCAACGTG	CTCGCGGACG	CAAACGGCGT	GGCCGTAGGA	TCGGCGAAGG	120
	ACCCTCTAAT	CAAGATTTTT	GGTCTACGT	CGATTCTGGG	CCGTACGGTC	GTTGTCCACG	180
	CCGGCAAGGA	CQACTTAGGC	CGCGGCGGCA	ACGAGGAGTC	GCTAAAGACG	GGCAATGCGG	240
	GCCCCAGACC	TGCTTGCGGC	GTGATTGGCA	TTGCCAACTG	AGCTGGCTGC	TGCCCGCTGC	300
	CGGAAGCTCT	GGAAAGTTGC	CAACTAGAAG	CTCTGATGAC	TATGTTAGCA	GAATAAACGT	360
	TTTATGGTTC	GCTGTGTTGG	CGCTGTATGT	TACAATTGCA	GCAATTAGAA	GTCTGCTCTC	420
	GCGCCCCGACG	GCACGCTCGG	CAGCGAGTAG	CTTGGTAGGA	TGTTTGCGGC	CGCCAGCAAC	480
10	AAGCCGAGGA	AGGGCTGCGA	AGGGTTCTAG	CACCTTGGAC	ATGTTACTCT	GGTTGGTACT	540
	GCGTGGCGAC	GTTAGTAGGG	TTGGTCGACG	AGCTCGAGAA	TCTCGCACCG	GTGCCGTCTC	600
	GTCTCTGCCC	CCNAATTTCAG	CCAGCNCCTG	ATTTCTGCNC	ACTTTGGTTG	ATCCCNTACN	660
	ATGAAATNTT	CCNCCCAAAG	AGCCTGCCGT	TATTTCTNAN	ATGACATCGG	TTCCCCCGAA	720
	AAGTGTCTAA	ACATCCCTGT	CCCCCN				

1205UP

	GATCTTCAGG	TTCCGCGACA	TGATTATCAG	CGAGATGGGG	TGGCTGCGCC	GGCGCCCCGG	60
20	CTCCTGCACA	CGCTGCGTGA	ACTGCTCCCG	CTCCGGCAGG	TCCTCGGGCA	GCACCGCAGA	120
	GATCATCTTG	TCCAGCAGGA	TGTCAATGAA	GTGCTCCTGC	TCCTGTACCT	GAGACACCGC	180
	GCGCAACTTG	GCCGCGCGCT	GCTCCTCCGT	ATCCTCCTCG	TCCGACATAC	CGGCGCCATT	240
	GTCGCTGGTC	TCCTCCTGCC	AGAAGCTGTC	CGCGCTGCTC	TCCAGCTCGT	GCCGCAACGC	300
	GAACTCGTCG	AAGTCGTCGT	CGATTGTTTT	GCGCTGCTGG	TCTTTGCCCG	TCCGCGCCG	360
	CTCCCATGTC	GCGTCGAA	GTGAGCACGC	GATGTTGGTG	ACCAGCTCCC	GGTTCGTGAC	420
	GCACGGCCCG	GCCTTTTCAT	CGTCTGCCAC	CCTCTCCTCT	GCCTCCATGA	TGCGTTTATA	480
25	CTTGCGCGCC	AGGAAATCCC	CCAGCAGCGA	ACGCCGCTTC	TTGCTGCCAA	TTGCAACGCT	540
	CTCAAGCGCC	TTGGTCTATC	GTCTCTCTTC	ATCGGTCTTC	CGCCCCACG	TCATATAGAT	600
	TGCGGCTCGC	GGTAGCACAC	TGGCGAAGGC	TGCCCTGGTT	ATATGCCGCT	AGAAGCAGTC	660
	TCGGCGGTCA	GTTAGTCCTT	TCGTGATGAT	GACGTGTTCA	CGATGACTCG	GATATAGAAC	720
	AGTCATCTAT	CGATTGAGAA	CATAGCTATA	TAGAAATGAT	TTACTGTAAT	ATATCGA	

1206RP

	GATCGCGTCC	GTCGTCGTCG	GCTCCTCGTC	CTCGTTGAAC	TCCGTCCACA	GCTTGAACGG	60
35	CCGCGCCGAC	AGGTCCACCT	TCGCCACCGT	CTCCGTCAAC	ACCTCGGTTT	CGAACTTCAC	120
	GGACTGCGCC	TTTATCCGCT	CCATGAGGTC	GCTGCCCGTT	AGCCCCGTCG	GGAACCCCGG	180
	GAAGTTCTCA	ATCTCCGTCG	TTGTCTGTCG	TTGCCCGCTT	GCAGCCACTC	CGTTCCGCGA	240
	CATGCCCTCG	TACAGCGTCG	GCTTGATCTC	CGCGCGCGCT	AGGTAAATGG	CCGCAGTGTG	300
	TGCGGCAGGG	CCGGAGCCAA	TGATCGTAAC	TTTGTTGATG	ACCATTCGTG	TCTGCAAAAG	360
	TTGTCCCAAC	CGGTATCTTG	TTGCTGCTGC	TAGCATCAAC	TGTGCACCGC	TAAGTTTCGC	420
	TCGCGCTTGC	TGGTTTTTATA	CCTCTGGGCT	TCACCATCGG	TGAACCTTGA	TCGCCGTTAC	480
40	TATTTCCGAG	GCCTTATGTC	GCACCTGACA	AATTCGGCTT	CGCGGGTGCG	CGACTGCGGT	540
	CAGTGGGGGG	TGCAGTACAA	GATAAGCACC	GCGGGCCTNT	NGNNNTCNNC	GGCCCTCTCN	600
	GNGGCCCGCC	GNCCCTTCNC	AGGATCNTTN	CCTCANCTAN	AACNNGGCC	GGNGNNNTCT	660
	TTTTTTTGTN	CNGCNAACGA	AGGCAATNNA	ATNTTTNNTN	GGNCNTNNGT	TNGAANTGTC	720
	CNNCNGTG	CATCGCNGCT	TATNAACACN	C			

1206UP

	GATCCGCTGC	TCGTGCACCA	CCTGCTGCAG	GTAGGTTGCT	ACTCCACGCG	CGAGATATGG	60
50	GTCCTGGTCA	ACATCCTACA	GCTGACCTGC	TTTAACGAGA	CAACCAAGGA	CAAGTACGAC	120
	CGCCGACATC	TCAGTTTCGG	CGGAACGGTT	TCGACGGCCC	TGTCTGCAGA	TAAGACCTTC	180
	GCTCAGGAGT	TTAACTCCAA	ATGTCTCAAC	TTTACGACCT	GGTGGCACCT	CATGGCCCGC	240
	CTAGACCACG	CTGTTTTTCAT	GTGGTGTCTA	GACATTATCG	TGGCCGAGAA	CTCACAACCC	300
	TTCAAAAGCA	ACCCCATCAT	CCGCGATAAG	CTCAACGGCA	AGGACTGGGA	CTACTACCGT	360
	GATCTACACG	TTGTTGTTCAN	CTATAGGATT	ATCTGCGCCC	TGACTCTTAC	AGTGCTTCTC	420
	AGCTATCATT	TTGGCTTCAA	TAATCTCTAT	GACCTCTCTT	TTGTCGACCC	AGCCTTCCAG	480
	ATAATAGGGC	CCGAACAAGC	GACTTGGGGG	ACGTGCATGC	AACCTTTATC	AAGAAATGGC	540
55	ATCACAACCTA	TAAAAAGTTC	TAGTTGCTCG	ACTTGTAAATC	TCATCTCTAA	ACATAATATT	600

CTTTTATATG CTTGTATTAC TTANCCTCAA CATGATNACN TATGCCTGGA AGATTTCCNC
 GNTGGCCGTN AGAACNGATT TGTGTCAACT TNTATAAAAC TGACCCGTGC GCCCCTCCCG
 TAACCCGANA TTTCCTGATN CNTGATCCTA TGANGATGCC GGCNCATTNN CANTATTC

660
 720

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1207RP

	GATCTGTTTC	AAAAATTGGA	AACGCTTACC	ACCTCACCAA	CACACCAGGA	CTTTATTTTCG	60
	TAGAAACAGG	CGATCGGCCT	GAACAACAGT	CACTAGAAAC	GGTGACCCAA	GGCAGCTTGG	120
5	CAACGAGGAG	GCACCCTAGG	GCTCAATGCG	TTGATAGTAA	AGCATGTACA	CGAGCTTTGT	180
	CTCCGAGAGA	AGGAACGACG	TCTTGCACTC	CGACACGTAC	GAGTCTGAGA	TACACCACCA	240
	CGGGTGCGTA	GTGGTGGGAC	GTAAAGCCTT	CAGTTTGCGG	GGACGGCCCT	GGGGACGGGG	300
	GAGTACCTTC	GTGGCAGCCG	AAGATACGCC	CGATGAGCTC	GCAGAGCTGG	CTCCGGAGCT	360
	GTCTGTCTCG	GCTGACGCGT	CGGGCTTGGA	GACGGGTTCT	TCCGTTAGTA	GTGACTGTTG	420
	ATGGAAGCTC	CCCAGTAACG	GTCTTGAGCA	AGCGGCCATC	GGCCCAGGCG	GAAGGCTTCC	480
10	AGCTGGCGTA	GGGCACAGGC	ATTCGAGGGG	CTGGCTGCGG	GACGGCGTCC	GACGAGATCA	540
	CATCTGAGCG	AATGATATCT	CGCCCGTCTT	TGGTCTCTCC	TAAGTCAGTT	TGTTGGCGAA	600
	CATGCGTTAT	GCCCTGAGAA	TGGTTGCCAT	GTGCTTGATT	CATGCGCCAA	CAGCTTATAG	660
	CGAATGCCAA	ACCCCCACCA	TTGTTNTCCC	CNACACTGCT	CNTGAGACAC	CCCCCCCCGA	720
	AANTNAATGC	GGTTTNTTTG	TAAAAACCCN	TNAAAA			

1207UP

	GATCTAATGA	GCGATAAGTC	ACCGGTTATA	GAAAGTTCGC	CGAATCCTAC	AACTGACTCC	60
	AACTCGCCAC	AGGAGATATC	TCTATTAGAA	AAGAATATCA	AGGATGTCA	GCGTTCACCTA	120
20	AAGGGCGTTG	ACACGCACTC	ATGTGAACAG	ATCATTAACG	AAATTCCTGT	GGTTGATTAC	180
	GATGTTCCGAT	GGGAAGATAT	AGCTGGTCTT	ACAATAGCAA	AGAAGTGTTC	GAAGGAAACA	240
	GTTGTTTACC	CATTTTTGCG	GCCAGACCTT	TTTCGGGGTC	TCCGGGAACC	TATCTCCGGG	300
	ATGTTGTTAT	TTGGACCTCC	AGGAACAGGT	AAAACGATGA	TTGCCAGGGC	CGTTGCGACT	360
	GAATCGAATT	CAACTTTCTT	TTGCATCAGT	GCTTCCTCTT	TGTTATCGAA	ATACTTGGGT	420
	GAGTCGGAAA	AACTTGTCAA	GGCCTTATTT	TACCTAGCCA	AACGGCTTTC	CCCCTCAATT	480
25	ATATTCAATT	ACGAAATCGA	CTCTCTACTA	ACTACCGTTC	AGATAATGAG	AACGAATCAT	540
	CCAGAAGATT	AGACGAGCTC	TTGGTCCAAT	GTCTCTCCCTA	ACGAGCGCCA	CGGCTAGGAA	600
	CAGAGAGGCG	AAGAGGCCAG	ACGCGTACTG	TCTTGCGCCG	AACCACTTAC	CGTGGGCAAN	660
	AANGANGCTG	CNATAAACTT	TTTCACGGGT	CTATNATCCC	TTGCCGGAAT	ACAACNAAAT	720
	GTTCTTTGAA	AACTTNTGGC	CTCCAAAAAG	AATTTTGAAC	TNATTCNNCN	T	

1208RP

	GATCAATTAA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAATGA	ATACTACTAA	ATCATCATCT	120
	ATTGAGTTTA	TATTAAATTC	ACCACCTCTT	ATTCATTTCAT	TTAATACTCC	TCTAATTCAA	180
35	TCTTAAATA	TTCTTAATTA	TTAAATTATA	TAATAAAAGT	TAGTGGATAT	AGTTTAATTG	240
	GTA AACATA	TGTTT TAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATTAT	300
	ATCATTAATA	TAATAACTCT	TTAATTAGAG	TTGGTACCAC	AAGAAATGCTG	AAAGCATTAG	360
	GGGTGTGTAC	CTTAGCTCTC	CTAATTAAAG	TTTATAAAAT	TATCCTTAAC	TAATAAAAAAT	420
	AATTAATTAA	ATAAATAAAT	AATTAATTAA	ATTTAAATATG	TTTTAAAAAA	AGAAATAAAT	480
	AATATGTTTA	TATTTAAATA	GATTCAAATT	TCCAACAATT	CCCATTTCATT	TAGTACTACC	540
40	ATCACCATGA	ACAATTGTTA	CATCATTAGT	TTATAGTTTA	CTATACTTAG	CTTACTAACA	600
	TGGTATATGG	TATAATANCC	CTAATAAACC	TTATANANTT	TTTACCNAAC	TTNGATTAAA	660
	AAAAGGGCGA	NCNNCTTTGG	NGGACCCCTA	CCCNTAAAAG	GNGTAAATGGT	TCCCCAATTG	720
	GTGGCCGAAA	TAANTTGGCC					

1208UP

	GATCTTAATT	TAAAATTTTA	ATTAACCTATT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATAAAAT	TAGTAAAAATA	120
	AATAGAAAAC	CATAAGTTAA	TTGATTTCATA	AAGAAAAATG	GAATTTATTTG	TGGCATCTTA	180
50	ATTTTATTTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTAAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCCCCTGATA	TATATAATTA	TTAAATGTTT	420
	CTTTACATAAT	ATTTATTTTT	ATTAGTCTAG	TAATATTTCT	ATTTAATAGT	CTACCCCTTT	480
	AATTGGATAT	TACTACCTAC	TAAATATTTA	CCCTAATAAT	ATATTATTAA	GAATACTTAA	540
55	TCCTAATAAT	TTATTATCCT	AAGTTATATA	AATTAATTAA	TCCTTTTAT	TATTATTTAA	600

ATTATTATTA	ATTAGTAATT	ATATTTATTA	TTTTATTAAC	ATAATTTTGT	ATAATATATA	660
TCCATATAAT	GGTATTTTAT	ATATACCNTN	ATGAATTAAT	GANAAACCTA	TATATGANAT	720
TAGTTATAGT	GACTTAATCC	CNATCTCAAT	ATATATAATT	ATTATAGAA	ANATACTTTT	780
TC						

1209RP

GATCAGCCTA	TGTAGCAACT	GATCGGCGCT	GGTCCGTGTC	AAACGCCGAA	AACACCCCAC	60
CAGATTACGC	AGACACTCCC	ATATTTTGAC	CGACTGGAAC	TTTGTGTACA	CAAAGCTATT	120
CAGCTTGTCA	CTGGCCACCG	TCAGCGGCAT	GTGTGTCAGC	CGAGTCGCTA	GCGCCGCACT	180
GCTGTTGCCC	TGCGCCAGCG	ATGGCTCCTT	AAGATCCTGC	GTTCGCATAT	ATTGCGCAAA	240
CTTCGATAGG	TCTCGACTGA	GCGAATTACC	GACATGGTCC	AGTAATAACA	ACACCCCAGG	300
GCAGCCCCCC	CAGCTGTAAT	TCACCGTTT	GACCAGCAGA	AAGTGCAATT	GTAAAAGAAT	360
GTACCCAGTAA	TGCCAGTAAA	ATGTGGAAAA	GACCTGGTCG	TTCTGAAGAT	ACGAAATCAT	420
CACCTGAAGA	TTCTTCAGTC	TTCTCCGTCC	CGAACATCTT	GGAAAAATCT	GCNGNTCGTC	480
GCTTCTCTTC	CACTCGAACC	GCAGGGCTTC	CAAGGACACT	CCTTGCAATT	GAA	

1210RP

GATCTAAATT	TATCAGCCCA	TGGACGGATG	GATTTACGGC	AGCGTGTGCG	CGCAGCACGG	60
GGCAGCCAG	ACTGCGAGGT	GGCAAATAAT	TCACATAGCA	ACCTGCATTA	TAAACATCCC	120
AAGTCATTAA	ACTTACTAAA	TATTGTTGCG	TAACCAAAAG	CACCGTGTAT	CATCATCTTC	180
ATAGTCTTAG	CTGAACCTAC	TGTCGCACCA	GCCCTTTACT	ACGTATTGTA	TCTCCCTTTT	240
ACAATGCTTG	CCCACTGCCA	GTTTTCCGCA	CGGGCGTTAG	CATGAAGTCT	TTGCCCGCCTT	300
TGTACCACGG	CTTGACGTCT	GACTCTACGC	GGACCAACGA	GGTTAGACGG	AGTGACACCG	360
GGACCGAGTC	ATCCTCGCTC	GCGTGTTCCT	AGAGACAATT	TGAGGTTCCA	CGGAGCATCC	420
ACGCCCATGC	AATCTTGCCC	GTAAAAGTTT	GCACANTTCA	TCCCACACTT	GGGGGGTTNT	480
TATCACNCCA	NCCTGATCTG	GTACGNAAAA	NTTTTCNTN	TTTGGTGAGG	AAATCAGGTT	540
CCCAATA						

1210UP

GATCGAGAAG	ATGCGGCGCC	GCAACGAGGC	CGCCACGCCC	GAGGCGGGCG	GCNACGAGCT	60
CCTGACGCCG	GCGGAGCGCT	ACGCGCTGGA	GCAGGGGCAG	GGCTTCCTGG	CGCCTGTCTG	120
CCCTGTGCGN	GAGCCGGCNC	GGCCCCTGCG	CGTGCCCTGC	AACGAGCTTC	CCGATGAATA	180
CTGCATCACC	AAGACTGACT	TGCACCGGCT	CGCTAGCCAC	GGCATCCCGG	TCGAGGACGT	240
CCACGAGGAC	AGCAAGGACT	GGTACTTCCA	GTGCCCCGTG	GGAGTAGAGG	AGGTTAGCCC	300
GGGCCTAGAG	AGCCCCGCGC	TGCAGCAGGC	CCTGGTCTGC	TGCGACCAAT	GCCTCCGCGT	360
GGCAGCAGCT	GGGACTGCCA	GCACCCCGCA	GCGATTGAGC	TTGCTGGCCN	GCGGGCAAGA	420
CTCCTCACTA	TTTTGCCCCC	CNTGCCCCCT	TGGCCTGCCC	CACGCGCCCG	CGCCCTCAGC	480
GGCGGNGNCG	GGCGCNAAAC	CCCTACCAGA	ACCAAAANNAA	CNACGCCNCC	GCCGCCCNTC	540
GGTGAAGCGA	ACCCTTTTTN	NCTCCTGTCT	TCCNCCCTG	AAAGACCTAN	TTCTCCTTCA	600

1211RP

	GATCTCTCTCC	AGTAATGGCG	TCAGAGCACA	CTGGTAGCGG	ACCCCTGCCA	GGTAGCTCAT	60
	CGGCAAAAAG	ATAGCACGCG	TATGTACCCA	CCAGCGAGCC	GGGTGATAAG	GAAACTGGTA	120
5	CGGCAGCAGC	CATAGCTCTG	GTGGCGCTGG	GTTACAGCCC	TCCCCTTGT	ATAAATTGAG	180
	CACGGAAAGC	CACACTTTAC	CCCAGTACGG	CGAGCCAATA	GCACCCCCCA	TGCGCAGCAG	240
	GGTCTTCCGC	GCCCCGTGCA	TCACGATGTG	TTCGCGCTCC	ATCCCTAAGA	GCCGCAGCAG	300
	AACGTAGTTC	AGCGCGGTGC	CCATCGACAG	TCGACTTGTC	CTCCGAATGC	AATCCCCACC	360
	CGCCGTGAC	AGGTGTGCCG	TGTTACCCAC	GTTAGCGCAC	TAGCTCCCCG	CGCTGAGGCT	420
	CAGGAATACC	ACCCCGCCCA	CATGCATCGC	CACCACATAC	CCATATCATN	ACATCNGGCC	480
10	CCCTGTTACA	ACAGGAAANT	GCCCNAACTT	CCTCTGCAG	ANGGCCCAAA	CCGCCCCCG	

1211UP

	GATCTACATC	ATGGGAGGCT	AGGAAGAGCA	AGGCACCGCG	TGCATTTGTA	GACTIONACGC	60
15	TATAATATGC	AAATGGCCAA	TACCTTTGCC	CCGGATCCAA	AGAAGGGCAC	TGTCAAGCAT	120
	ATGGTTATCG	AGACGAGCTT	CAACCACTTG	GCTCTAGGCA	TGGTCAGCCA	GATATTTCCG	180
	CACTAAACAA	CGTCTAGAAA	ATGACTTGAC	CTATGACGTG	CCGGGCTTGA	CTCATCTTAC	240
	TATCCTCAGG	CCCCGCCCTC	TTCTTGCGCA	GCATGGCTCT	AAACCCGTAA	TAAGCCCTAC	300
	CAACCTGAT	ACAGGAAACA	TGCTTACGCG	CTGTTACACT	TATAAGAAGA	ATGTTATGCG	360
	CACGCAATTT	AATTGGCTTG	CGCCAGTTTA	AGAAGTTGGG	CCAACACTAA	GTCACCCGAA	420
20	CTATCCGCGA	AGGCTACCTA	TCATTTACCC	TGGAAGTGGG	TTGTTTGGCT	ACTCANTCCC	480
	CAGCNIGAAA	ATTGCCCCNA	ATTGCCGCTC	CAGAANCGCT	ATCCAACGGA	ACTACTCGAC	540
	CAAATCTAAT	TTCCCTTATA	ATGTGAATTA	CACTGTNAAT	TCAGAANTGA	ACN	

1212RP

	GAGATCTCCC	AGTACGTCTT	CAAGCTGGGC	TTTGCGGGTC	TAGGATAGAG	CCGGCGGAAC	60
	TCAGGACTGG	TCGAGACGGG	ATGCTGGATC	CCGAAGCTCT	TCATAAGCAA	CAACCGCGGT	120
	TGCCGCGTGT	AGTCATCGAA	CCGTCCCCTCA	GCGAATCCTG	CGAGTCTCCA	CCTGACATCA	180
	CCATTGCCCA	CGATGCACCG	AAGCGTTTCT	GGAAGGAACA	CGCAAACCTAG	CAAGAAGCCG	240
30	ATGCCGGCCA	TGATGCTAGT	GAAACCAAAC	AACCATCTCC	AACGGTCATT	ATCGAATAGG	300
	ATCAAGCCAG	CAATAATGGG	CGCCCCAAAT	CGGGCCACN	TTTAGGGCCC	CAACATNAAT	360
	TACGCAATTG	CCTTGCCGGG	GT'TTTTCGGN	GGTGTGTGAT	TCNCTTACCG	TACGGGGCCCC	420
	TGAGAAAACG	AGAACTCNGA	GGAAATGCTG	CNCCCTTMTT	AAAAAAATAC	NCCCATCGNG	480
	CAGGNTGAAA	GCANTTACNC	TTGACTATAA	ATCANCCCCC	GANAAANTTA	NACTCG	

1212UP

	GATCAGCAGT	GTCTTCCGGG	ACGTCAACGG	CTTGACGGTC	TTGCGTACCG	TGGCCAGCGT	60
	CCGCACGCCA	TGAAATGCCT	GCACTGCCTG	CCGCAGTCCA	CAGTTGCGCA	GCGATGCCAG	120
	ACACGAAAAC	ATCCTCGTTA	ATGCAGCTTG	GGTCTTCCG	TCGTCACTGT	GCGTCTCGAT	180
40	TAAGCCCAGG	TTATCAGTAA	CATCAAAATT	TTACATAACT	GCCACGTGAT	ATACACGTGA	240
	TAAAGATCTA	CACCCATGCC	CCCTGATTGT	GTAAAAAAGC	AAC'TTTTGAA	AAATTTTCTA	300
	CGGTTCCATC	CGATGAGATG	AGCTTAGCCT	AGTGCGAGTC	CAATATCAGT	GCACTAAGTT	360
	TATCCAGTGA	TACTTGTCT	CGAGCTTTCA	GCAACAGCAT	CAGTTTACAA	ATCGCACCAG	420
	CAGTTATCCC	TGGAAAGAAA	TCCTACGGTC	CGAACTCCCA	TGATAGTTTG	ATACGGCCCT	480
	TACAGACGCC	AGCGAAAATC	CCACATCTCC	NGGNGGCTTC	AAATNRNCTT	CCGNGGTTCT	540
45	AAAGCTTAGG	GGNATTCCCA	TGCANGGGTT	TATNAAATTT	GANAAAT		

1213RP

	GATCTTTTTT	AGAGAGTTCA	GTGTGCGGAC	CAACACGGTC	GGAGGCCCTT	CAGCTACTTC	60
	CAGAAGGTCG	TAAAGAGTCT	CCAGTAGCCC	CAGGGTGCGC	TCGTGGTCAT	AACAGTCCAT	120
5	CTGAGGTAGC	GTGTTAATAA	CCGCTTTCAG	CATGCTCGTA	GAGGACTTCT	TTACTAGGGC	180
	AGAACTTATA	AACTTAAATG	TCTCGTCTAT	GCATTCAGGG	GTACGAAGAG	CTGCCAGTGT	240
	CCGAATGTCA	TCAGCCGATC	TGCTCGTTTT	ACTTTGCTCA	GAATCGCGCC	ATAGTTTAAC	300
	TNCNGTTCCC	AAATTAACCC	GGTTTCCCN	GACCCTTTTN	AACAAAAAGG	AAAAAAAATT	360
	CCGTTTCCCC	CCCNCTNCCC	NNNTTGGGCN	AAAAATTTTT	TNCCNCGGGN	AAAAATTANC	420
	CCCCCNCTT	AAGNCCCATT	AAAAAAAAN	NNNNNTTTT	TTTTTTTTNT	NGGNGCCCN	480
10	NAAAAANNTN	CCCCNNTTTN	NAAAAANNGN	NGGNTTNNNG	NNNNANANN	NANNN	

1213UP

	GATCGCCAC	TTCACGAACT	CCAGCTCCGC	AGGCCGAAAC	GTCGTGCGCA	GCTCCGCTC	60
15	GCGCAGCGC	CCCACGTTCA	CATACACGTA	GAAGCGCCCG	CCCTCCGCGC	CTGCCTGCTC	120
	CCCCGCGTAC	CGCCGCCCCA	GCGCGTGAGT	CACCCGCTTC	ACCTGGTACC	CCAGCCCCCG	180
	CAACCGCACG	TTCATCTCCG	TTACGTATGT	CCCCAGCTCT	CCCCCGTCGC	CGCCAGCGC	240
	GCCCAGGCAC	TGTGCCAGCA	CTTGCTCGTG	CACCGCCCCC	CGCGCCCGCA	GGATGCACTG	300
	CAGCAGCAGC	CGCCGTCTAT	CGTCGCGCGT	CGTCTCCGTC	ATTGCTCTCC	TGCGCCCCCG	360
	ATGCACGCAA	ATCCGCTCTC	GAATGCCTTT	GGCTGCCCCC	GGCTTGCGGT	GTCTGGGGTT	420
20	GATTGCCACG	AATGCTGAAC	CAAACTGACA	CATTTTGCCA	AAAGAAACGC	CAATGTCTCT	480
	CGAACGAAAT	TCNCGNTCTC	GTTGAACATA	CCGCCGCGCC	CAGTTGGGTG	AAGCCGCTGC	540
	TGTTCCACAC	TATCCGGTAG	GGTTCAGCCT	TCCTGTGNTT	CCACTANTGG	NAAACNCCTG	600
	CTT						

1214RP

	GATCGTTCAC	GTCAGCCAAT	TCTGTGTGCT	AGCCCACTAC	ATTGTAGAGC	TTATAGATTA	60
	AACCTCGAAT	GCAATCATTG	GGGTAAGCCA	CAGCTTCTGT	AGTCTGCCTA	TAGCAGAACT	120
	TTTCATCTTC	AAGGGTATGT	CTTGAAGGCG	GCTTTAAGGA	ACCCTTCATC	GAAGTACTGG	180
30	GTCTTTCTAC	CCCTCCGCGG	GAGCAGGATG	TTAGCCGGAG	CTTCTGAATC	AAACTCTTGC	240
	ACTTCAAAC	CTTGTCGTGG	ACCGAACGCA	ACTTTAGCTG	CGCCTTCAGG	TTTTGTTTCT	300
	TTACTGCCAG	AACTTGTGGG	CGGTGATGGT	AGGAAATTTT	TCCCATCTGG	GTTAAGTTCC	360
	TTCCATATCN	ATTGACACTG	CACGCCCCAA	CATTCTNAAT	TCCANANCCC	CTACCCCCCC	420
	NANATGTTAA	TTTTTCNGGT	TTAAAGGACT	TATCNNCCCT	NTCAATTTTT	CTTNAATNAA	480
	CTCCATTTGT	CCCNAAACNA	CAATTNAATT	CCCCTGTTC	TTCCCA		

1214UP

	GATCAAGACC	TGACGGCTTC	CTAAAATCGC	TAAGTTTAGT	ACATAAATTG	CGGCAAGAAT	60
	TACCCAAATC	ACCTGCTGTG	GAGATACGAG	GCAAGCTGAG	CGGGTGGATG	TGCCCATTC	120
40	ACACCAGTAA	CTCTTTGGTG	TGTGGCTGTC	ATGGTACTGC	TCGCTACCGC	CGTGTTCACG	180
	GCCTTGCTTA	ACGGGAAGCG	ATGCCGGTAA	AGCCAAATCA	TGTAACACCC	AGCGATAAGT	240
	CCACGAGCAG	ATGCTGAGAG	GCTCGACCAG	AACGACGTCG	CATGGGTGAT	GCTACAGATG	300
	CCTATGCGTG	TGACAGGTG	AAGCAACTGT	GTTCTGCTTC	AAGTAATAGC	CAAACCTGGC	360
	GCGGTAGAGA	ATGACACTGC	GGTGTCTGTG	CATATGTTGG	CACTATGCAA	GGTTACAGAT	420
	TCGCAAGCTG	CCCGAATGTT	GGCCCAAATT	CGAACAAACCA	GCCAGCTATT	GGTATGGAAT	480
45	TATATACAAC	TTGGTNGGGG	AGGAATTCCG	GTGAAAAACG	GCGCACCAGG	NAACTTTACT	540
	GGAACGGGAA	NCGGGNAATT	TCCCCCCCNC	CCCCGGTTTT	TGGAACCGGC	CCCNTTG	

1215RP

	GATCAGAGCA	AAGTGATTCA	AAGCGATTTT	GGACGACGGG	TAAGCTGCCA	GCGCAGGATG	60
	GCCCATCTGA	CTGAGCCCCG	AGGTTACGGC	AATGAAAGCG	CCCTGCGACT	TACGTAGCAG	120
5	TGGAAGCGCC	TTGCTGGCCA	GATTCACGAC	GCTAAACAGA	TTAATCTCGA	ATAGGCGTCT	180
	CCATTCCCTG	ATGTCCGCCT	CCGCGATGCG	TTGTTGGTAC	GAGACACCCG	CGTTCGCTAC	240
	GACAGCGTCT	AGCCGCCCAT	ACTCCGAGGA	CACCTTATCG	ATCACGGCCT	GCACCACACG	300
	CTCGTCAGTG	ACGTCTCCGA	CAACATAGTC	GAATTCTTGG	CCATGTCTCG	CCTTCAGCTC	360
	CTGCAATTG	GTTTCCGCCC	GTGCAACCCC	TACTACAACC	ACGTCCGGGG	TTGAGCACAA	420
	TCTGTCAACG	GTTGCCGCGC	CAATGCCACG	CGATGCACCT	GTCACAATTA	TAACCTTCAT	480
10	TCTTGGTTGG	TACTTTATCT	TCAATGGGCC	ACGAACGCTC	CCGCTGTTAG	TTTATATATG	540
	ACTTCAGGGG	CTGTTGGCAC	AGCTCACTAG	CACACTACCC	TTACATGTTC	ACACCAGTTC	600
	GAGAATGAAT	GGCACAGTTC	CATTTGTAAT	CATGATTATC	AATACAATAT	GTGTTGTAAT	660
	TATTGATTTG	TAATATGCAT	AATATAGATG	GTTATGATTT	GTAATACAGT	AAATATACGG	720
	TAAATATAAA	GTATTTTAA	GAATATTTAT	AATT			

1215UP

	GATCGCCCCG	GGCCTACGTC	ACTGCAGATT	GGCGCAAGCC	AGGAACAAGA	CGGACACTAA	60
	GTCATTCTGT	TTATGTAGAT	TGGGTGCGCA	GCAGCGCAGC	CGGCGCCGCT	GATCTAGCCG	120
20	TACCGCACCA	ACGGCGGGAC	GCATGCGGGC	CCGGCGCGCT	AAACCACGAC	CGTCGTGCCC	180
	GGTGCCAAAT	GACCGCGCGG	TCATCCACCC	CGCTCAGCCG	GAATGTAGAC	CAAAAAAGA	240
	GTGTGGTTCC	AGCTCTCAA	TTGGGCTGGT	CTCAAGGGGT	CGCGGGCCCG	CAATCGCCTA	300
	TATAAACGGA	CAGCGGAGAC	AGTCCGTGCA	CTGTCGAGGA	CAGGCACACC	GATGGTGAGG	360
	GTTATCATTG	TGACAGGCGC	GTGCGCGCGC	ATCGGTGAGG	CAACCGTTGA	AAAGTTGTGC	420
	ACAGCCCCCG	ACGTTGTGGT	GGTGGGAGTT	GCGCGGGCGG	AAAAGACTTG	AAGGTGCTGA	480
25	AAGAGAGATA	TGGCAGTAA	TTCGACTACG	TTGCTGGAGA	CGTCACCGAT	GAAAGCGTGG	540
	TGCAGGCGGT	GCTCGACAAG	GTGTCTCTCG	ATTATGGGCG	GCTAGACGCC	ATCATAGCGA	600
	ACCGAGGCGT	CTCGCGCTTC	GAACGCATCG	CCGAGGCAGA	CATCCAGCAG	TGGAAGCGCA	660
	CGTTTGAGAT	CAATTGTTTA	GCGCGGTAAG	CCTGGTGAGC	AAGGCGCTCC	GATGCTAANG	720
	AATCCAGGG	TTACGGTGAN	TGTGGTTACC	TCNNGANTCA	ACNAGGTAGN	TANCCG	

1216RP

	GATCAAGTCT	TTTATCACTA	CAAATGAGCA	GCGCTTAAAT	TTCCAGAATC	GTTTACAGCT	60
	GGGTACGCTT	GCAAGCAAAT	TTGGCCTTTT	TGAGCTAGCG	GAGGAACAGT	TCGCTCACGC	120
	CAAGCGCCTC	ATGCGGCCCTA	CAGAGCGCCG	CGAGCTTTAC	ATGTATTACA	AATCTCTCAG	180
35	CGCGTTCTAT	TCCTTAGCCA	AAATGCCGAC	CTGCTTAATA	GATACTCTGC	GTGCTTTTAA	240
	TAACGAGCCG	CACTCGTCCC	TCCGTAACAC	ACTACTGGCT	GCGCTCTATC	CGAACACATA	300
	TCCACTGGCT	CCGCCGCAAT	AATGCAGAAG	AAGAGGTCCA	TAGATGAGCT	GAACCAGCCA	360
	GCGCCANCAG	AATGTACTCC	CACTTATGCG	AACTCCNANA	NTGGAAGGCC	CTGCATACAT	420
	TTCCGGTCCC	ACCNACTTCT	GCGTTCTTTG	GCTTACCAC	CTTGTGAACC	GAATNGTGCG	480
40	GCATGCCTTG	CCCCAAAACC	CCTGGAATTC	CATAAATACC	TCNCGGGGGT	TANCTGCGCT	540
	CCCCCG						

1216UP

	GATCTGTGAA	TATATGCTTG	GGGTGCGATTG	GTTTGCCAGT	GCTATAGAGA	GCGGTACCCG	60
45	GCGTACGCAC	GGCAACTCTT	CGAGTTGTCA	GCCCAAGTAG	CCTGATCATA	TACAGGTGAT	120
	GGATGGCTCC	TGTATACCTT	CCCACACTGC	AAGCCCTGTA	GTTGCTCAGG	TGTTACTGCG	180
	GCAGATGGTC	ACATCGCTTC	GGAGTATATA	GTCTGCGCTT	TGAGCCACTT	AAAAGGGGCT	240
	CGCCGGCTAG	CCCGGCCGCG	TGGTCAAGTG	ATTGCCATCT	GCCCCGAACG	GAAACGTAAC	300
	AGGCCGTTGT	AACGTGGTGC	TCATCCGTCA	GCAGGCCGGT	CTCCCAATGT	ACTTCGCATA	360
	TGTTATTTTA	CGTTTATGTT	ACCTATCGAG	GGTCGCTCAG	GGTTATGCCC	GCGGTGCTGC	420
50	CCTGCCACGG	AACCCGCAGC	CTGCAANCTT	CCCTAATTGC	CCATGGTGAA	TTGAACTCNC	480
	AAGCTTATAT	CTCCTTGCC	GATCCCCCAT	NATGCATTTG	AAGTTCCNCA	NAGGACAAGA	540
	AACANACNCA	AAAAACNAAA	TGGTTAAGTA	AAATTGATTT	GGTGTTCCTN	CCT	

1218RP

5	GATCTTTGTG	GGCCACGACG	ACCACCGGAG	TACCGCCCGT	GGCTTGGACG	TACCACTGAA	60
	AAATGTTCTG	CATGAATCCC	ACCTTGATAA	TACCCATGGA	CCACTGGAAG	TTCTGCGACC	120
	ACGCAGCAGC	GATGGGTGGC	ACACGAGCCA	CTCCCATCAT	AGACGTGATC	GCCAAATTTT	180
	GGAAGTACGA	GAAAAGAGAG	ATCGAGTTCC	AAGCGATGTG	CGCGGCAGTG	GTTGAGTGCC	240
	CGATCACAGA	CACAAACCCG	GAAGTCCAGG	ACACCCACAC	CAGCTATCGC	GGCGAATCGG	300
	CCACGAATGC	ATACTTCGTC	TGCACCGTCT	TGCCGTGCCG	ACAGCACCCG	CCCTGCAACA	360
	CAGGCCCATT	GGATGCTCCG	TACTGGTGTT	TCAGCTTTCC	GCNAAGGCCT	TTACACCATC	420
10	CGTGCTTCCC	AGTTCCCNCG	AAAATATACC	CNCCTTGGT	ATCTTCCCNT	GAAAAATCAC	480
	CGCCGAAATT	TCCCAGTTGA	ANCTCTTTG	ATTCCCCCCC	CNTGCCCTCC	CCCAGNNCGG	540
	GANATTACAC	ACNAATNC					

1218UP

15	GATCCACAGT	TTCCGCACTG	AACTTACTAT	CCCTCAGCAA	CCGCAGGTCA	TCGTCAAGCG	60
	TTGTGACATC	AGGCTTCACC	CCGTAGCTCA	TAATGCCTGG	GACGGATGCC	TTGGTAGAGT	120
	AACAACCAAA	AAGGCATGTT	GGATCAGCTG	CATAAGCTAG	TAAAAAAGAG	CAGACGCCGC	180
	CTGAGCCACT	AAAGGCAACG	ACCCGCCAAT	ATATGATAAA	TAGAGAATAT	AGAATGTTGC	240
	CACTAGGCCA	AGATGACCTG	CATTGAGATC	CAGCGACAAA	GTGCCAGGAA	TTAAGGGATC	300
20	TTCAACATTC	CTGATCATAT	GAGAAGAGCA	ATACAGGGTT	AAAACGGCCG	CGTTTAAAT	360
	TTACAGACT	CAATCAAAATG	TTTCACAATA	CCTGGTTTGG	ACAAGTCCGA	GACATCCCCC	420
	TAACTGATCT	GCCTCCCCCA	GCCAAGGATT	TTGCGCCATA	TACGGGCCAT	ATTTTGCCCTG	480
	ACGATTCTTT	TGCATTCTCT	CCCGAACCAC	AAANACCTTA	GGGGCACNAA	CGGCCCCATT	540
	CCCNANNGAA	AAAAAAAATA	GGTGCTTTGN	ATNNCCCGNA	CCCCCCCCCC	CCCCTNTTTC	600
	CCNG						

1219RP

30	GATCCTGATA	TTGTACCGGC	TCATAAATAC	TTTGATATC	TTCGGACAAT	GTATCGTACC	60
	CGATACCTTT	CAGCACATGG	ATCAGTATAT	CATGCTTCTT	CCTAAATGCA	GCAACAGTAT	120
	TGAGGACTTC	CTTCAGACTG	TCCGCTCTGAG	TATCTATCTT	CATAAAGATG	AACTTTTCGG	180
	ACCTCTTCCT	CATCAGCTCT	CTGATGAGTG	ACGTTGAATT	CTTTTAATAG	CGCTTCCCAC	240
	TGGTTTGATA	ATCTTGATAC	AGTGGTCCAT	AGTCTCCCTT	GGAAAGAAAT	GAAGTCGGAA	300
	GAAATCAGTT	TTGGCAGCAC	TCTCTCAGTT	TCTGATTCAA	CTCCCGTTAG	ATATTTCCCTC	360
	CCACAAATGT	TTACGGCCCT	ACAGTTGGTT	TCTTTTGANA	CCTTCACTTC	CNTCCNAAGC	420
	CATGAAAATG	ANTCCATCNC	CNCCCCCCCC	CTTTGTNAAA	NTTCCCATTC	GCAAATTNCN	480
35	CAGTTGAATT	CCCCCANCCG	GGTGTTCCCC	GCGTTCCCCC	NAAAAAANAC	NGAGGGGGGT	540
	TTTAAAAAAN						

1219UP

	GATCGCGGCG	CTGCCGCCGG	CGTCGGAGTG	GCGCCACGTG	GGCCGGCCCT	TTTGCCAAA	60
	TCCAGCGGT	GGCGGGT	CGAGCTGCTT	GACCTTCCGC	GGCATGTCAA	AGTGCGCGT	120
5	TAGTTTGGTC	CTGTAGGCGA	ACTGTAGCGG	CGATGCGACC	GTCTCGCCGA	CGGTGGGGAG	180
	CAGGCCCTCG	GCCAGCAGCT	GGGGAGCAAA	GAACCTGAAC	GCATTTGACA	CGGTTGCTG	240
	TTTGAGCTGC	AGCTGCTGGT	CATACGTACG	GAACCTGATAC	TGGCAACCGG	AGCACTTCCC	300
	GAAGTACTTG	CAGTTGATGA	GGTCGTCGTG	GCGCATTTCA	GCAGAGGTCT	GCACCTCCAG	360
	CAGAGACGCT	TCGGCGTAGT	GCGGTGTGTC	TTGTGCACTT	GGATGGTGAC	CACGTGCCCC	420
	TGGCCAGCCC	AAATTTGGCAC	CCAGCACTAC	TGTTTCCCTG	TTTGCTATCC	TCCCCGGCTG	480
10	TCCAACAANA	CCCATCCCTC	CCCATCCACT	TTACNTCCAC	ACATCACTTT	CATCAGCNCC	540
	GGTGTGTTCTT	CTGCTGCATC	GCCCCCGGAA	TTTNTTCAGA	ATGATTACTC	CTCCNCNG	

1220RP

15	GATCGCGCAG	TTGTGCGCCT	CAGCCAGCCG	CTTTTGGGC	ACGCGCGGGA	GCGTGTCAT	60
	GTACCCGTCG	GGCACGCCCC	CGTCCGCTTC	GCCGATCAGC	TGCAAGTGCT	GCTGTAGCTC	120
	CTCCGGCATC	AGTCTCACGA	TCACATTTAG	TAGCGCGGTG	CTGTGCGCAT	CTGCCCTCTG	180
	GAACATGTCA	GCCAGCTGCC	TGCGAAGTTC	GGACCGTGTC	CCCTGGTCGT	CTGTGAGAGT	240
	TAGTATTCTT	GGCCGCAGTC	GGTCGCACAT	TGGCATCACT	TACTATTGTC	GCTGGGCATT	300
	CACCTCCCTG	GATCACTGGT	GCTCCCGGTG	GCGGTAAAGG	GCAACAGACA	GGCTTTTTTT	360
20	ATTTTCTCT	ATAATACGCT	GCTCTATGTA	GCGTATACTA	TACAAAGTCT	AACTAAGGTG	420
	AAGTGAGAAG	TCATTATTTA	GCTGCGTTTC	GGCCGGTCAT	GCAGCCGGCT	ACCATATTAG	480
	CATGCCGCTG	GCCTTGACGG	CTTTGACGCT	GGGGGAATTG	TTGATGCCCA	AGGACCTTAT	540
	GGAGTTCAAC	CTCACGGAGA	GGTTTCCGAG	ATCGAAAATG	TCACTTTCCG	CAAATTGCGA	600
	CACACCGTAA	TACTCGGCAA	ACGAGTTCTC	GACACCGCTG	AGCTCGTCGT	CGACGTCGTC	660
	GACATAGGAC	AGAAGAGGCT	TCGTTGCGGC	TGGCGGGCGC	GCGCGCGCAA	CCGGAAGNGC	720
25	CCCCCANAG	CTGGCGCCNG	GCCGCCC				

1220UP

30	GATCCAGAAT	ACTCGTCGCA	CCACTTCTTG	AACCGCGGGT	ACAGCGCGGG	GTCCGTGCGG	60
	TCCAGCGCGG	CCTTGTGCGC	CGCGTGAAC	AGCCGCGCGT	CCTCCTCGTA	CAGGTAGCTT	120
	GGCGTCAAGT	CCGAGCCGCC	GCCGAACCAC	CACGCTGCGG	GCTTGCCCGC	CGCGTCCCAC	180
	GTCTCAAAGT	AGCGGTAGTT	GAGGTGCACG	GTCGGCGCGT	GGGGGTTTAC	GGGGTGCAATC	240
	ACCAGAGAAA	TGCCCGAGGC	GAAGAAGCGC	ACGCCGCGCG	CCGGCTGCCC	GGTCACGGGG	300
	TCCGTGGGGA	GGTGACAGGT	TTTGTGCTCG	GCCCCGATGG	CACGTACGGC	TGCCCGCGAC	360
	AGCTCGCCGT	GGACTACCGA	GACGTTAAGC	CCGGCTTTT	CGAACGTGGT	GCCGTGCTGC	420
	AGCACGCACG	ACGTGCCGCC	GCCACCCTCC	TTGCGCTCCC	AGGAGTCGGC	CTTGAACCTG	480
35	ACCGTGTCGA	TCCCTCGAA	CGCGCTGTA	ATCTCGCGCT	GCTTGCGGCG	CACGAGCTCT	540
	TCCATGCGCT	CGCGCATGTG	GGGGGTGTGG	GCGGATGCCA	TTGCTGGGGC	GCCGCAAGAG	600
	GCGAAATNAN	CNGTGCGCCC	GGCGGCTTAT	ATAAAAAGCGT	GGCACGGGTG	TTTTTGCCAC	660
	GNACCCANGG	GCTGCNAACG	TCCGCGCCAA	NANANCCAGG	GTCCCGGCCA	NAACACNTCG	720
	GCGGGCGGCC	NAACGCCGCC	NCNCACAATC	ACNCCGACAA	TGCGCGNCNG	GGATTCC	

1221RP

45	GATCTCTGCT	GTTTGGGCTT	GCAAGCATCT	TCCTCGCTAA	CTCGTTCGGC	GTTTACGTTT	60
	GAGGTTGCGG	GGACGTATGC	TANACCGAGG	GCAITGCGGG	GTTGAGGGGA	AGAGGTTGAG	120
	ATTATGAATG	ATATATACTG	TTATACCGGC	TGCGGGTGGC	TGTGCGCGTC	ATCACGAGGG	180
	ACTTACAAGT	TCAAAAGGTC	TTCATCGATA	TTTACCAACT	TGTAATAACG	CTCTTGTGAG	240
	TCTGAGTTGG	AGGAGCCGGG	CTGGTCGCCA	TACTCCATCA	ACGTGTTTAC	CATTGCGCGT	300
	GTATAGCTGA	TCAGGTTTTC	GAGGGATGAC	TCGCTCTCCT	CCTTTAGGAA	CATCAAAATG	360
	GTGGTGTTC	ACAANCNGGA	AAACCTATCC	TGTTAGTNNA	GAAGGGTTGA	GAACACCGCT	420
	AATCCCTTAG	GCACTCCACC	ATGGTTTAT	CCGTACCCCA	TTACCCAAAT	TTCCCCCAG	480
50	TGCCCTTNA	CTTTGNCGAA	CCCCCGCNA	ATNCCCGTTT	TTAAACCCN	AAAAANG	

1221UP

	GATCGACCCCT	ATCAACGCCT	TGCAGGCTGC	TATGGAGGGC	TATCAGGTCA	CCACTATGGA	60
	CCAGTGCGCC	AGCTACGGCC	AGGTTTTTGT	CACCACCACC	GGCTGCAGAN	ACATCATCAA	120
5	GAAGGAGCAC	TTCTTGGCCA	TGCCTGAGGA	CGCCATTGTG	TGCAACATCG	GCCACTTCGA	180
	CATCGAGATC	GACGTCGCCT	GGCTAAAGGC	CAACGCGGTC	GANGCCGTCA	ACATTAAGCC	240
	ACAAGTCGAC	CGCTACTTGC	TTTCCTCCGG	CAGACACGTC	ATCCTGCTTG	CCGATGGTTA	300
	GACTAGTCAA	CCTAAGCTGT	GCCACTGGCC	ACTCCTCCGT	TTGTCAATGC	TTGCTCTTTC	360
	TCCAACCAGT	CTTTGGCACA	GATGGTCTCN	TTCAAGGGCA	ATNAAAAGGC	CTTCAAANAA	420
	ATTNNTTNNT	TTCCCAAAAA	ACGGCCNTCA	AANCGGNTT	CATTCTTNNC	CNAAAAATTGN	480
10	AAAGGCGCNC	CCATTTCCCC	CTAAATTTCG	GTTTTNTTTT	AAAACATTCC	CCCCCCCCCA	540
	TTTCCGGGTT	CCCAAAAGGG	TNTTTNNGGG	NCCCTTAAAT	NTTA		

1222RP

15	GATCGAATAA	TAAAAGTGGC	TAATACTTGG	TAATAATATA	ATAGAAAGGG	AAATAGAAGA	60
	GAAGTCAAAT	GGGAAATAGT	CAACGGCGTA	CTAGGTGAGT	GTPCAGTTGC	ATGGAATCGT	120
	AGTCAGAGAG	GTTTATCAAA	AACGGCAGTC	GTCTGATGAT	AGCAGTATCA	CGAAGTGCTC	180
	ATGCGCCCTG	CATACAATGG	CAGGCTCAGC	GCAGGATCAA	ATGGATAGCA	GCGGGCGTAC	240
	CCGCGAACGG	ACTCAGTGGG	TGGAGTGGCC	CCGGTGGTAC	TTGAGGCCGT	TGAGGTTCTT	300
	GTAACGTTTG	CCACAGACCT	CGCACCGGTA	AGGCTTGTCC	TTCTCGAACC	CATGCCCCGC	360
20	TGGATAGGGC	TCGTTGGACT	CCGGGTCCAT	GATGCTAAAA	GTGCCGCTCT	GGGTTTTCAT	420
	GAAGCTTTTG	ATTCTGGTGG	CCGTGGTTTT	ATGGTACTTG	AGTCCCGTTT	GATCCTGGTT	480
	AGTCTTATCG	CAGCCCATGA	GGGACNNTTG	AAGGCTTNTC	CCNCCTTGT	CCNCN	

1222UP

25	GATCTCGCTC	AGACCGTCAC	CCACGTTGTC	TGCAAGGGCC	TCCGCCGCTT	TANCTGCCTG	60
	CCACGGCTTG	GAGCACGCTA	GCTGCACGCC	AAACCCGGGC	AGCTCCGAGC	AGTGCGCCCT	120
	GGGCAGCGCC	CACTCCGAGT	TGGTGCCCTG	GATCAGCGGC	ACAGCGAGCG	CCATCTCACT	180
	GTACGTCACG	TCGGCGCCCA	ATTGGCGCAT	CAGGCGCCGG	AACGGCAGGT	TCCCGACGGT	240
30	GGTCAGCGGA	GAAACGATCT	TCTTGTGATG	CAGGTCCAGC	GGCTTCTTCT	CCTGTGCAAA	300
	GTAGCGTGTC	TCGTGATACT	GGGCGTACAG	CTCGCGCTGC	CGGGCGCGCT	TGTTGCTCAA	360
	TTGCTCCTCC	CGCTGCTGCA	CCTGCGGCAC	CTCTGCGACC	GCGCCTCCGG	GGCCGCCGCG	420
	GCCCCCTGCA	TCTCGTCCGC	GGAACCTCTG	CTGGATGGCG	TCAAAATTCC	ACNATTTCTC	480
	CCTGCNCNGG	AAGGGCCCAA	NTTTTCCCCA	ATNANCNCCA	ATGAACCATT	GNTNCCCCCN	540
	TGGTTNCAAA	ACNAATTTTG	CCCCCCCCCG	AGATTNTCCC	A		

1223RP

40	GATCGGTTTT	CACCTCAATT	CGTTTCTGGT	CGCGCAGTTG	GTGATGCTGC	TGATGCTGAA	60
	GCTGTAATTG	CTGTTTCTGC	TGAGCAAACCT	GCTGCTGCTG	TTTCATCCAG	GGATTCTCCG	120
	GAGGAGCTGA	GTCCGGTTTG	CGCCGTCTCT	GCTTGTCGTT	CAACAAGTTG	TTATATAGCT	180
	GGTTCATACC	TTGGGAGGTC	AGGAACTGAC	TGACATTGCG	GTCCGCCCTGC	GGGTGGTCTA	240
	GCAAACGGAG	CATGGCCTCT	CTCTCCTGTA	GAGTTTTCTT	TGCCGCCATC	TCAAACCTCC	300
	TAGATTCCAT	TATCAGCGCT	TCTTCTCTAG	CAATCTCAGC	CGCCGACCTC	GAAAGCAGCC	360
	TCCGTCAAAT	ACTTCTTCCG	CTGTATTTCC	CTGGTCTTTG	GAATACGCTA	GGATGGTAGT	420
	AGCGGTTTCC	CCGGGTCTTT	CGCCCTGAAA	TTATTTTTTG	CATACGNGGT	TAAAAATCTC	480
45	CCCGTANTTC	CTCCAACGGT	CCTNNANNCG	NCNTAAANAN	ACNGGTCTNGT	AAATNATAGC	540
	NNCC						

1225UP

	GATCCTACTG	GAACCACCCA	CTCAGGAGCA	GGTTAAAAAA	CCAGCCAAAG	TAAAGACAGA	60
	GACAAACGTA	AGCATCCCCA	AGCAGACCCC	TACTCCAAAG	TCTAAGTCGG	CTTCAGCTTC	120
5	GTCTTCTAAA	GTGCCTACAC	CCCTGTCAAA	GCAGGAGCCC	GAAGCGCCGT	CTACCATTTT	180
	TGACGCTCCT	TCCTCTTCCT	CCTCCACTCC	GGTGCCCTGG	CACCTGGATA	TCTTTAGCAA	240
	ATTTAGGAAA	GCATCCAGTG	ACTTTGACAA	GCCCTTTGTG	GCCGAGTCGA	ATGAAGTTGC	300
	CGAGAAGCCG	TCCGGGAAGG	CCAAACGGCA	AACACTCCC	GCTGCCAGCA	AATTAAAGCC	360
	CGCTGCAAAG	AAAATAAAGA	CGCCCCGGCT	CGATGAAAGC	GAATCTGATT	TTGACCTTGA	420
	CCTCAGCGAC	TCCCAGCCCG	CCATCGCCCT	TAGAAGTAGA	GCCTCGCGAG	CTGTCGCCAA	480
10	AAAGCCAACC	TACGTAGTTG	ACCTTTCCGA	TGACAGTTTT	GTTGATGGAG	ACGCCAGAG	540
	ATGTTGAGGA	ACCGATACTG	ACGAATCCTT	CCAGCTCTGA	CTAGCACTCT	AGCTCGCGCA	600
	TTGACAGTNC	NCTACCTTAT	GGAGGNTTCC	GAAATCCNTT	GAATACCCCC	CGTTTTTTTAC	660
	TAAAACCCCC	NCTTTCCCTT	TCACCCCCCA	ACCCCCAGGG	GACGAATACT	TTTTTCTTTA	720
	CTTCTATCA	NGGGGTTCTG	CNCCNCCCNT				

1226RP

	GATCGTCCCTC	GCATGGGAGC	ATCAGATGTC	ATATCGGCGA	AGCCTTTCCA	TATGGCGGCT	60
	ACGAACGATA	CGAGTTCCGC	TCCTGCTTGC	GCTGTGGGG	TCTGTGAGCG	TGCTGCTATT	120
20	GCTGTGCTGT	ACGCCACACA	TGTGGCTTGG	ATGGCCATCT	CCGGCAGCAC	GGGAGGTCCC	180
	GGCTTCACCA	GAGTCACAGG	CCCCGGCTTC	ACCAGAGTTA	CAGGCCCCGG	CTTCAACACA	240
	GCCACAGTCC	CCAGCAGGGT	CTAAGACGCT	ACTGCAAGAC	TTACTGCTAG	ATAGCAAAAA	300
	ACCGGAGGGG	GCCTCTACGC	CACAGATGCA	GTGCAAGCGC	TACTTTGAGG	GCACATATCT	360
	CCGGGAGCTG	TCCTGGGCAA	ATAGCGTGTT	GCGCATGGCA	GACGACTTTC	TTACGGCTAC	420
	GCAATACACA	GCGAGGCTGT	TGGAGCGGTG	GCGCATATTT	GCTGATTGTT	TCGTTATTCA	480
25	GATTTCCGAT	TTTCAAATAC	NCTATCCAAA	CAAAAAAATC	TGCCCAANTT	CCATCAGCGA	540
	ANTTCCCTTT	TCNTNGGCAA	AAAAAAAAN	NGAGGANATT	TTGCCTNTCC	CCNGAATTTT	600
	NCCCGGGAAT	ATTTTAAAGG	NGGNTTTTTT	GNAANGGGC	CCCACCAAAA	NANAAAAGGN	660
	GCCTTTTTTG	GAAAACGGGC	CCTTTTCCCC	GGNGNGAACA	AATTNNTNNN	GGGGACGCC	720
	NGAATTTTC						

1226UP

	GATCGCTTCA	AATTTCCAGC	CGTTGATATT	CAAAGAGTGG	TCACGTTCCG	AAAGATGGTC	60
	CTTCTGTTCC	TCGTACGTT	TGGAGGGCCG	GCCTACCGGG	GCGTTCCGGC	TTGTCTCCAC	120
	GGTGCGGTGC	TGTCCTATGG	GGACATCCTG	GATGTTGTTT	TGCAACGCAT	TAGCAAATGA	180
35	GTTTTTGTAG	TGGTACTTAG	GAAGTTTATA	ATTTAGGCTC	AGTTCTATAC	TGCCGCTAAT	240
	ACTTTGACCT	GGAACAATCA	TCGTTATGTG	CTCACCTCTG	GCGTGTCTCT	TAGCGTATTC	300
	CCGCCGTGCT	TCAGCATTTG	GTGTTCTCTG	GATCGTTGGG	TATGGATCCT	CCCACCTCTG	360
	TAGCCAGTTG	GTATCCAGCT	TCTCACCCCTG	CTGATGCGAT	TCTGGACGCG	GGGGTTTCAG	420
	CAGGCGTTAG	CAATGAAGTT	GGCGTTGCCG	GTTCAAAAAA	AAANACCGGN	GGGGGCTNIGG	480
	TAANCCCGNC	CCTTTAAGGG	CGGCCCCATA	TTNCNATNA	CCNNNACCGC	NCCCCCATN	540
40	ACGCCCCCAA	AANATNTTTG	AAAAAATTGC	CNTACCTTTT	TGNGGGAGCC	CACNCTTTA	600
	NATAACCCAT	TTTTTGAAAN	ANGCCNNTCT	TTTNTTTAAC	NCCNCGGTTT	NCNANTATGC	660
	NGGGGCAAAA	TTAAACCNCC	CCCCCNAAAT	GNAATCNNTT	TCCCCTCNAA	NACAAAAAAT	720
	ATTTTNTTTT	NGGGCNGGGA	AT				

1227RP

	GATCGATGAA	CAGACTGGAG	AACAGAGAAA	GGTGGTGCCC	CTCGAACTCG	AACGGTTTTT	60
	CCCGCTCGAT	TTTGATGAGA	TATTACTCCG	GGATACGATG	CAGAGGAACG	CAGCTATGGA	120
	AGAGGAGGAC	TACAGGGAGC	TGGGGAAGAG	AGATATTGAG	GTGGCGTTCC	AGAACACCGG	180
	CGTGACGCTG	GATGACAGCG	TCCAGTCGTT	GCCGCCATA	TCGCTCTTCG	GGAGGTATGT	240
50	ACGGGATATC	GACGGGATGT	CGGAAGCGCT	TGCGGACGGG	GACAGGCACA	TCATGGTGT	300
	TGCGCCGACA	AATGACGCCA	TTACGGCGAT	GCCCCAAGAG	CCGTGGGAGT	ATCCACGGAA	360
	CATCGACAAG	TTGGAGCAGG	CAGGCGCGTC	TGCGAGCGAA	ATCCACGACG	CCATCCAGGC	420
	GAATGTGAGA	CGCTTTGTGC	TAACCCACGT	GGTTTCCGAC	ATCGACCTCT	CTAAGGTGGT	480
	TCGGGAAGAT	TGCTCCAGCC	GTGTTTGACA	AGCGACTTCA	TCCCAAGAGC	ATGCAGGGGA	540
	TATTCTTTTT	CGCCACAGAT	GGCAANGGTT	TTACAGTNTC	NTCCAANANN	GGGCGGACCT	600

1223UP

	GATCGCGCGC	TTGAACATGG	ACGTGGACAC	GGCGAAGTGG	CGCTGGAGCG	CGCGCACCCG	60
	TGCGTCCCTGG	AGCTCTGTGT	GTGCCATGGT	GCGCTCTGTG	TTGAGCTGGC	GCACAACCCG	120
5	GGCGGATATG	GCTTGACCC	TACTGGCGGC	GAGGACATCT	GGTAGCGCGG	CCGCCCTGCTC	180
	GGACTTGACC	ACGACAGTGG	CGACGCGGAC	CTTGGTGGTC	GGCGCCGTGA	ACGCCGTGTT	240
	GACTGCAAAG	TGGTCCGAGG	GCGCGATGGT	GCCGGGAGGG	AGGGGTTTTG	GTGAGGATGC	300
	GTGTGCGCGG	CGCGACGGCG	AGCGAGATGA	GCTGGCGCTG	CAGCTCGGCA	TCTGGATTGC	360
	GGTCAGGTCC	TGAATCTGCT	CGGTGGTCAG	TTCTGCGTAG	TCTCCGAAAA	AACAGGAAAA	420
	ATGGTTGGCG	GCAATGTTCA	ACATCCTTGG	CNCCCTGGGT	TAAAAATGGC	CGAACTGGNN	480
10	GCCGATTTCC	CCGAGAACCC	ATTTTGTAT	CCCCCTTCCT	TCTGCNTNCC	GATTTTTTTG	540
	CAAAANTNAA	AACCCCCCT	AAGAAGANN	CGGGGNGGCC	CNCGGCGGN	TTTTTTTTTC	600
	CNCCCCCA						

1224RP

	GATCAGTAAC	AACCATAGCA	GCCGCACCTA	CGAAAGCATT	CGATACATTT	TTAATAAATT	60
	CGACAGCAGG	TAGTAGTCTT	CTTCCGGATT	GCTTTACAGG	CTCGCTAAAG	ATGTGTTTCG	120
	AGCTCTTCCA	AAGAGAAATT	TGTGTAACCT	CAGAGTCAGC	AGCGGACTCA	AAACAGCACC	180
	TCAACCAAGC	GGTTGACCGC	ATAGGTTTCT	TCAAGCCCAA	TAGTTTTTGG	AATAGATCAG	240
20	GGGGAAGAGT	TGGAACATGC	GTAGGGGGTC	TCCGTTTTTAC	TCCCTAACT	AGTTTTATCT	300
	CTACTTTTGA	AAGATAGTCG	TAGTCGGGAA	GCTCAACATT	GTAAGTCAAC	AAGCTAGGCA	360
	AAACTGTCAT	CAAGATTGAG	TTCCGCTCAG	GGTTTTGACA	ACAGAGTAGT	TATTCTCTCA	420
	CTCCCCAGGC	AAGATGTACT	GGTATAGAAA	ATCCAGTTGA	AGCCATAACC	AGCTCGTTGT	480
	CACAGTCCAC	CAGAAGATAG	GANACATCAG	GTTGAAGAAT	TCCTCATCTA	GGTTATCTGC	540
	TGCCTTTTCT	GTTCTGCTTT	GGACCAACCC	ACAACCCNAA	AACCAACGCN	AAATCAAANA	600
	CCNGGTTTCT	TCCTTGNTCC	CCCCNAATGA	AANAGGTTTT	GAAANGGTTN	TCCCTCTTGC	660
25	CGGGCCAANT	AAAAAAAAGG	CCCNAGGNT	CNACNATATT	ANCANTCCCC	NAAAAAGGCC	720
	TTCTGNTCTA	A					

1224UP

	GATCGGGTGC	GGCACATGCC	TCATCGGGCA	GGTGGGGTGG	CGGAGGCATA	AACCCACCCC	60
	TGGTTGTTGC	AGTGAATAGG	TATGGGTACA	GCCTTGCGCG	CCACGAATGT	GCGGAGACGT	120
	TTCAGCTGCC	AGAGGGACCC	GACCGCACCG	GTGGACTGTT	GGCTTGGTTG	GACGCTCCAG	180
	GGTTACGAGC	CGCGCCCTTG	CGGAGCACAT	GATGTCGAGC	TGTGCATTGG	TCCAGGTGCG	240
	CACCTAACCAT	GCCAGGGCA	TCCGGCCAAAG	GCGGATGGGG	CTGGACGGCG	CCAGGGCGGG	300
35	ACGACTATCA	CTAAGAAATC	ATCGATTAAA	ATATAAATA	CATAAAGTAA	AGGGCGGACT	360
	GAGTGCACCT	TCAGCGCACT	AGCAGCGAGT	AGCCGTAGTT	GAACCACTTG	CNTGCGATCC	420
	GTGGCACGAA	GCGGAAGTAA	CCGGAACCTC	GATAGTTTCC	AACGAAGAAC	CGAAAAAGCC	480
	TTAAAAATGC	TTACNCCTA	GGTCCCCCAA	CNGGTCTCTC	TGTTTGAAT	TAGGGTGGGC	540
	GGAAACCCAA	ACTGCCANT	TGTTNTCCAA	TTCCCCGNG	GCCCCAATTT	NAATTTCCAA	600
	ACCNATCNCN	ATCTCGGCTG	NATCCCCCCC	NTTGCCCCCC	TCAATGGCCC	CGAACCTTTT	660
40	NTGNCCCCCC	CCCAAGGGCC	CTTGNGNATT	TTTTTCCNG	CCCNCCCNGT	TNTCTTAAAA	720
	NAAAGCNGCA	TTTTTCAATT	CCCCNGGAAC	NCTTTTTTGT	TT		

1225RP

	GATCCTTTTC	TTTCTTCTTC	CCTCCTCCGA	GGATTCCCTT	TTTGAGCTTG	CCCACTGCGC	60
	CCAACCCACC	GCCTATGACA	CTAGTACCGG	CGGACAGACC	AGCGGATAAG	CCCTTATTGG	120
	CAAAATCGCC	AACCTTTGTC	TCCACCTTGG	TAACAGAGAC	AGTGTAACCTA	GGAGAAAAAT	180
	TGAATCTCAA	GTAAGAATA	CCACCGTCCT	CGCCGTTAGG	ACCAGTTAGC	TGGACTTCCA	240
	TTGGGGTTTT	ACTGTCTGGG	TCCACCTCAG	CTAGAGCGAT	GGTTGCGGTG	CCAATGAGAT	300
	CGTCACTGTT	TCCGCGATCC	CAGTCCATGA	CCTTGATGCG	CAGGTAGTTG	TTAATCCGGT	360
50	TATTCAACTG	CAGGGATGTG	TTCTCGTTCC	AAACAGGTTT	AAGCGTCTTC	TTCTGGGTTT	420
	TTGTCTCTGT	ATATTACCTG	ATCTGAATTG	TCGAGGTTAG	AATTTGACAT	AAGGTCCGAC	480
	TTGCCGTTCC	GGTCAGCAGG	TAGAGCCTGA	CTGCATTTAG	AACCTCCAGT	GTTAGGTCGC	540
	AGTGTTCGTA	TCAGTTTGCT	TGTNGCATCT	CNAACCCAAA	AAGGAACCAC	AACCGTTANN	600
	TCCTTTTGNG	ACCCAACCTT	NTTTACAANN	AGGTTTAAAT	TACANITTCN	ATTINTTTGN	660
	TGGAANGAAC	CCCNAAAGNG	CCNCCTGTTT	TACTGANCNT	NNTCCCNAA		

TGCCGTTNAG	ANGTTACCCC	CCGCTCTAAC	GGTTTATTTT	GGTTNTCACN	CCCCCTTGGN	660
TGCGAATTNG	AAAACCCCTCC	NCCTGNCCCN	NCCCAATNAN	TCNCTTGAAT	CCCCNTTNG	720
GAACCNNCN	TTNCCCCCAN	CNCC				

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1227UP

GATCATTTGC	CGGACCAAGA	AATATTTTCA	CTCCTCGAAG	AGCTGGCCAC	TAAACTTCGT	60
GTCTGGTTAG	GTTCCGCTCC	AGCTGATGTG	CTAGATATCG	AGGTGAGAGG	TAAGCTTATT	120
GAATACTGCA	TGAATACTGC	ACTTTATTGC	GGTGGGAAAA	TAGAACATCC	TACATCGACG	180
ACTTTGATGA	CTGACCATGA	TGAAGACGAA	TCTGAAAGCT	CTGATTCCGA	ATAGTCCAGG	240
CAAGTTAATA	CCCAATGCTC	GGCTTTAGCC	TCAAGGGAGA	TATCGGTAAC	AGCTCTATCT	300
ATGCTGCCAG	CACGTACGAG	TTTTTACTAA	ATTTGGCATA	CAGTTCATGG	TATTTGACAT	360
AAGCTTAATG	TTTCATTTCG	AACACAAGGC	TTGCCGATGT	GTAAGTGCG	CCGGCTCTCT	420
GCAITCAAGA	CAGCATACAT	GAACCTTCAG	TTTTTATACG	CGATCATGTT	GATTTCTAAT	480
AGGGCTAGTC	CATGGCCCCCT	ACCTATAATA	TACTACCATC	CAGCCCNCCG	AACCGNAACN	540
NNATTTTPTA	TTTTAATNAA	ATTTTGGGGG	NATNCCACAC	NNNCCCTANC	NNGGANTTCC	600
AATGTTTATT	TAANTNAAAA	ANCAGTTTGA	AGGGTATTCC	NNCNCNCCNC	CCCACNGNT	660
TCAAAACCAA	ACNANACCGT	GAAGCNGTN	NTCCCCCNCA	AGGAGNGCCC	CCCCGCTTCN	720
AAAAACGGTN	NCCTTTNCCN	CCCTTGNCNA	ANATTCCCCC	CGCTGCCC		

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1228RP

GATCCATTGG	GCCCAACGAT	GCTAATGAAG	TTCTTGCTCT	CAAAACCCAC	ATTGTGCACA	60
CCCTTGTAAG	ACTTGAAGTT	CTTCACCTCT	AAGCCAATCA	GCCTCCCCAT	CTTTTGTAGA	120
CACTGAAGCT	CAGTCTAACT	GCTCTCGATG	TTGTTAGTGC	GCTGTTAATA	TGTCCAAACA	180
AACGCGATCA	TGGTTGTGAA	GAAGTGGCGG	TTCCGCATACA	GCGTCAGCAC	GTAGCCACAGC	240
GGCCCCGCGG	GCCCGAAGAT	CACTGAGATC	GGCAGGAACA	GCGGCGTCCA	CAACAGCACC	300
AGAAATACCA	AAATCGCCGC	AAACGTTATG	ATGTACAGGA	TCACCAGAGT	CACCGCCTGA	360
ACCCAGATCT	GCCCGTGGCC	CATCCCGACC	ACCATCGACT	GCCTGAATTA	GTATATTCCG	420
TCCCACCTGC	TGTTTTCATAC	ATACCACCCC	AGGGCACACC	AGGCGGTAAC	AACCCCAAAG	480
GNGTCCCTAG	GGAGCGCATG	CAAAATATCC	ACNCTCCGCA	TGGCATCTCC	CNNTTGGAAA	540
GGGGNCCCCC	NAAATTTGGG	CCNAAANCCC	TTAAAAGGNC	CCTGTGNCCN	CAANNACTTC	600
NAATTTCCCG	NTTNGGCCCC	CCCCCCCCCTC	CAACGGGATT	TAAAACAGGN	GGGNGNGGGA	660
AAAACCCNCG	AGGGGNTTTT	TTTNGCCCCCT	TTCCGAAANA	ANCCNCCCCC	CCNGGGAAAA	720
AAATATTTTTT	TTTTNGGG					

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1228UP

GATCATGCCA	TTCTTACGCT	TTGCCACAT	GGACGCCCAA	ATGAATTTCT	GTGTATGCGA	60
GGATGCTGAC	GATGCAGCTG	AAGCAGGAGA	CGACAGCGAT	GTGACGCCTG	GTTGTATGAC	120
GCCTACTATT	TCACCTGTGA	ATACTTGTC	TTGGCCCTCT	GTAGACATAA	TCTTGTAAAG	180
GACAAAGCTC	CTGCTGTCCG	TGTGTATCAG	GTCAAGTAAA	GTAAGCGCCT	TAAATGCCAA	240
TTTGAGATA	CCGAAGATTA	AGCATGCCAA	ATCGTTAGCC	GCCCTAAACT	GCCATGGGTG	300
ATGCTGGGAA	CAGGTAAATA	TGGCCTGAGG	TGCTGTGTAC	TTACCTGATA	TAAAAGTATG	360
CAGTATGCGG	GGCGCTTCGT	ACGTTCTGCT	GTAGTCTATC	GGATCCTGGA	TAGATGTTAG	420
TTCATCGGTA	AATGGTTGGA	GATAATTTTC	GTCTGCGAG	GCCTGTATAG	TAGTTTCTTG	480
TGTTTGAATA	TTTATGAAAT	GGTTGGGCTA	GCTTTCAGCA	GCTGCTTCTT	TAGTTCTTGC	540
TCATACTGAC	TTCTTCCGAG	ATCTACNCCA	CCGCNTTGGG	GCTGACCCCA	GCACACTTAT	600
GATTTTTTANA	AGGAATCCCC	GTAATCCAAN	GCCCTTNCNT	ACCCNGTCCC	AATNGTTNCA	660
TCAAAANGTC	ANNCCCTCNA	TTCCNCTTT	TCTCNCCAAA	ACNCCACANT	TAATTGAANA	720
NGNCCNTTTC	ACCGCGAGAG	GTGGCGNC				

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1230RP

	GATCCCAGTA	GGCGTCTGOC	GGCATAATGT	CTGCCGTATA	GGTGGACTCT	GGCTGTATTG	60
5	TCCGCAGGGG	AATGGCATGC	TTCTTGTA	AATACAACCG	ATCATAGGGC	GAGCTCATAT	120
	CCACCGTACG	TCGCTGGGAC	ACGTACTTTT	TGACTGAGCC	ATCATTCGCG	CTGTTTATTG	180
	CGACTCTAAT	CTGATTGAGA	ACCGTGACCT	CTAGTGCTAT	AGCGCAAGGC	GTACCTGTCT	240
	GATGATGCGC	TTTTCAATGC	TCGAGCGTGC	GCAGTGTTAC	ATCGATCGTC	GCGGACGATG	300
	TTTAAGCAGG	ATGCTGAGCT	AATATGTATC	GGTATAGGCT	ATGGCAGTA	GACCTGGGTA	360
	TATACGCCTA	GATATGGACA	AGATGCTGCG	CCTAGACATC	CAGAACTTAA	CCAGGCTCGG	420
10	GTTAAAGCCA	CCCAGATAAC	ATTTGAACAT	TAGAACAATT	ACCACCGCGA	ATGGAGGGGA	480
	ACCCAGTCCA	AACCCACCGG	CATCCAATAG	TTTCCCCCAA	CNGCGAAANG	GCAGAATGCA	540
	CCGCCCAATG	CTGCCCAAC	GCCACCGGCC	ACCGTGACCC	CATTGACCTN	GAAGCCCTGG	600
	GGCNAAACTG	CATTTTACCC	CCCCCATTN	GGAAAAANTG	ACCGAATAAA	ANNCCCCCN	660
	AAAAANNAAN	GGCCNCCCCC	AATTACTTTT	TNNCCNNGGG	CCCNAAACCC	CNGGGCNNA	720
	AAAAANNANTG	GGGGGGGGTT	TCCGNNTTTT	AAAAGG			

1230UP

	GATCTTCCGC	TCCACTTGGT	TGGGCTGGCG	CATGTCAAAG	GTTAGTAAAA	GCCCCGAATC	60
20	GTGTACTGAC	GCGAACTTGT	TGGATCTTCC	GGAAGAACAC	AAGGACGTAT	CCGCGCCCAA	120
	GGACGCGAAA	TCATAGGTCG	GCATCCACTT	TACATCACGG	ACGGAATCTG	AGCCTGAATT	180
	GAAATTCAGG	TCGCTGCGGT	TCACCTTGTA	AGAGTGCGAC	CGCAAGTCCC	ACACCTTGAT	240
	GCAGCCGTCC	TGGCCACCGC	TGATAAGGAG	ATGCGTCTGG	CCCATGTTGA	AGTCCACGCT	300
	GTTGATGGAA	CGCGAGTGCT	CCGACAGGGT	CCGTGATCAG	CGCGGAATCC	TTTGCCGACG	360
	CGCGGTTGAT	ATCGTAGATG	GAAACCGAGG	TCGACGTCCC	GCATATGGCG	ATGTAATTCT	420
	TGTGGTGGTG	GAACCCCGCC	CTTGACGTCC	CGAAATCCGT	GCTAATCTTG	CGCCATGTTT	480
25	CCGGCGCCAT	GCTGCTCGAA	GAACTTCGTC	CCCGCCCGCC	AAGGNTCCCC	NGTTGTTCTN	540
	GTTATTCCGT	GCACCCCTGCT	GCTCCCTGTA	CCCTCCGTCN	AACTTGTTCA	GCCCCAATGG	600
	TCCTCCCCCN	CCCCCNCAAC	CATGCCCCCT	ANCTTCTTTG	ATTTTTTTCC	AAACCTGCCA	660
	CCCCCGGTTG	CCTGGAGGGG	GGGTACCCCC	CCCCAAAACC	CNCGCCCCCC	CAATTNTCCC	720
	ACGCCCNCCC	GAATTTGGTT	TNCCTNNGGG	NCCCCCNNGG	GNCCNNAAAA	CCTCCCCCTAA	780
	AGNA						

1231RP

	GATCATCTGC	GTGAAGGGCG	ACAGAAGCCT	GGCGATGGAA	ACATTGGAAT	TGATGCATTA	60
35	ACGCAAACAC	ATGGGTCAAT	TCCTCAAACT	CAACAGAAAG	GGGACGAAGC	TGCGCACACA	120
	GTCGCTGCAA	ATCTTTAGCC	GAGTTCTGAA	AATTCAAAGT	CGGTAGTTCT	CGTATGTTGA	180
	AGCCAGATCC	ATAAACTATC	TTCTCACTCG	CCGGATGCAA	AGTATCAAGG	AATAGGCGAC	240
	AATCGGTAAT	GATTGGCTCG	AGCTCACGCA	GATATTGGCG	CACCTCTGAT	ATCCGTGGGT	300
	TGTTGATGTC	ATGATGCACA	TGAATAAAAG	GAAGAAGCTT	CGAAAGAGGT	ACACGGCCCC	360
	GGTAGCCGTG	TGATGAGAGC	TGTTAGTTCT	GCTTCAACAT	CAGCAAGTTT	CTCTATAGGG	420
40	GACGCAGGGT	CGTCAACATC	ATTTATTAGA	CACCTCCAGC	ATTTGTTCTT	GAAAAAAAGT	480
	NGTGCAATGNA	CAATNGCNCC	CCCCCCTTTT	GAAANGCCGG	AGAAAAATTC	CCTTNAANAC	540
	NAAATNTCTNG	GTNNAAANTG	TNNNAANCC	CCTTNAATTA	AACCCCTNNN	GCCNCAAAAA	600
	AATTTNTTTAA	ANCCTTTNTA	ACNCCCCGGG	AAACANAAAC	CCCCCCCCCA	AAAAAAAACA	660
	NGTTTNTTCC	NCCCCCCCCC	CCCCCGANNT	TTTNAAAACC	TTTNNAAAAAT	CCCCCCCCCC	720
	CNAAAAANCC	CNCNAATTTT	TTTTTTAANC	C			

1231UP

	GATCGTCAAG	GTGCATCGAC	TTGGCATTGC	AAAGGGATGT	GATCCCTGAG	GGGAGGCTTG	60
	CAGCAGGCGC	GCTCCTTGTT	TCACATCATA	GGCTGTGAG	GCCGGACTGA	TTCAGCTCTC	120
5	AAGGCGAGCA	CCCTCCCAAC	GCCCAATAGG	GGCCCCCTCC	TGGGCTGTGC	ACGGGAATAC	180
	CTCAGACACT	GCGTTAAGAT	ATATGTATTT	AAGAGGGCAC	CAGCTGGCTA	TCAATTGCCC	240
	TCTCTGCTCT	TGTTCCAACA	CCAGGCAAGT	ATCATGATGT	CTGCTGCAGG	AAAAATGTTT	300
	AAGAACAACG	GCCAGAAGGA	TGAGCGGAAG	AATGCGGGCC	AGAGAGAGGA	GCGCCAGTAC	360
	AGGGTCGGCG	ATGAGCAGGG	CTTGGGCCGC	CAACAGCAGG	CTGACTTGGG	CGCCCCAGTA	420
	CCAGCAGGCG	CCACGCTCGC	AGCAGTTCTA	CGACACTTGG	NGCTTCCCNA	CATTTGGGCC	480
10	CCCCACCAAT	TGGGNCCCCA	GCAAAATNGG	CCCNCCNNCT	TTNATTTTNG	GGGCGAATGG	540
	GCCNAAACCT	ATCCCCAANT	TGNGGGNAAC	TCCCCCCCCA	GNANGAGAAC	NCATTTTTCG	600
	ATTGGAACAA	NCACCTTNNN	TTTGNNAACG	CCCCCCCCNA	AAAGCCANGG	GACTGTNTTT	660
	TTTNGAAAAA	GNCCCCCTTT	NTGTCNCCNN	ANAAATTTT	CTANAATTTG	CGNGGATTCC	720
	TCCCTTGGGG	CCATTCCNTT	TTTACCCTTT	TAACCCCCC	CC		

1232RP

	GATCTTATTA	ATGAATTTT	CCCCACGAAG	CTTGTGGAAT	TTTGATTCTA	TGCTTTGCAA	60
	GCACTCAACT	TGGGCTGTGG	TCATGCGAAA	CTAACACGCC	GCGAAACAGA	TACTGCCCAA	120
20	GCGTTAGCAC	TCGCTCTTTG	CGGTGCTACA	AACAAGTGTC	GAGCATTAGC	GTGTGACTTA	180
	TTTAGGGTTG	GAATATACAA	AAGTAAGGCG	TACATGCCGA	TATCTCTCTT	GTGTGCTCTT	240
	CTCTTACCTA	CATCTAGATG	TATTCAGGGA	ACTTCCCCCG	GAGATTACAG	GCCAAGGCCG	300
	TCCAGCCCGT	AAAGTGCTGC	ACCCGTTGAC	CTTTCCATCG	TTCTGGTTGT	ATTGTTCCGGT	360
	AACAAAAACC	ACCTTTCCCC	AAANTCNAAT	AATTGNTTCA	ACAGGTTGTT	CCCCCATTG	420
	AAAGGGATAN	NCGTTTAAAC	CCGGNCNAAA	CAANNAAANG	GNNGNTTTT	TTGGGCANAA	480
25	ACCCCCCCCC	NAATTNAACC	GCGTGGGGCC	CTNCNCAAAA	TTNTTTT	CCCCCNTGG	540
	GGNCCCNCC	NAANAACCC	CGNGTTTNA	ATATATCCCN	CTTTTNCAG	AAGNGANTCC	600
	CCCNNAACCC	GNNGNGATNT	TTTGTGNTT	TAAAAANNCC	CCCCCCCCC	CCNGGGAGGG	660
	NNTTCCNCNC	CCCANCATTT	NNACCNAGGN	GAGTTTTTTT	TCCCTCCCGG	GGGAAAAAAC	720
	ANTGTTNNNT	TTNNNNCCNA	AAAAAA				

1232UP

	GATCAGTTTG	CCGTAATTGA	TACAAAAGGC	AAGTGGTGG	TGGGCGACGT	TGCGAGGAGT	60
	AAAAAGAAAGT	CCCGGCGACT	GCGCTTGTTA	AGGAAGTTTA	GCGGGACTAT	TTTTGACCCA	120
	GAGGAGTACT	CCAATTGGAA	TATGATAGAA	TGGTCACATA	TTCACACAAG	ATTGCTTTGTG	180
35	ATGAAATAGGT	CAACTTTCAT	GGAAATTGAC	TTTGTAGACG	GATGGCAGCA	GGAAATTTGTC	240
	CAAGCAAGA	CGTGGTTAA	CTTGGCGGAT	TTTAAACGCC	TTTCCGATGA	GAGCAGTGTC	300
	CTACTCACCT	GCAAAGAGAT	TATATTCTTA	GACCACAAGC	AGCAGGGAAC	AAAGAGGGCG	360
	CTATCTGGA	AACACAATTG	GGATAGCAAA	GATTCACTCT	TAAAGCTTGC	TATACACATT	420
	TCTGGCAGCC	ATATGAAACA	ATATTTACAT	GCATTCTTAT	TTCCACCATG	ACTCCCTGCA	480
	GTGCTTATGT	GTCCTTCTTC	CCGGTCCGAA	AACACTTTCC	ATTTTTCAG	CCATCCCCC	540
40	GCTGNTTGT	TTTTNCCATT	TACACNCCNG	NTTTTACCGA	AATTACCTCC	CCCNTGTNCC	600
	NAGAAACCGA	GTTTANAGAA	ACCACACCCC	CTTTCATTTT	CCTANNTGTG	CCCGCCCCC	660
	CCAGGGCGAG	AGTTTGGGN	CCCCNTTTT	NTGNACCATN	TTNCCCCNCC	CCNCCAGGGT	720
	TCCCCACCNT	AAAANCCCTG	AAACCCCTTT	TCCCCCCCAC	ATTTTNGGTN	GGGGATN	

1233RP

	GATCACAGTG	CTGTGGGCAT	TGCTGCTCGT	CGTGCTCTTG	TGCCCCCTCAA	GCGCCGAAGT	60
	AGACAAGCTG	CCAGCAAGCA	CTGATTGGTA	CAGGAGCTTT	TTGTTACAGT	TCCTAAGCAG	120
	GTTCCGGGTC	GAGTCCGCGT	TGTTCAAAAC	AGCGCCCGGC	TGCACGCTCG	AGCTCGACTC	180
	CCCCGCGGCG	GACGACGCGG	TGGAATACAC	CTCTGATCCC	GGGTCCGGAT	CCCTCGCTCT	240
50	CGCAGTCCCC	CCGGAAGCAA	AAAATTCTCT	CACGGATGTA	TTCCCGTGGT	TGCCAGCTG	300
	CGCACC GGCG	GTACCCGCGG	CGCTGTTGAC	ATTGGACGTG	ATATTCTCCA	TCAGCAGCTG	360
	CGAGCTGATG	CCCCCTCGGG	CGCTGTCTTT	GCTCGCATCT	GTAACGTCGT	CAGACCCCGA	420
	GTTTTGTCT	GTCGTCCACG	AACGAGACGT	TCAACCATGT	GACGACGCGG	GCGCGTTTGG	480
	CCCTCACAC	CNNATTTGGG	CCTTCTGCT	GGAAACNCAA	CCCGGGAAT	TTCCCAACCT	540
55	NTGATTCCCN	AANTGCCCGG	CCNCCNTCCC	AAATTANAAT	CCCCAATTGN	GNTTGAAATN	600

EP 0 866 129 A2

GNCNAAATNA	AACCCCNITT	TCCCTTNTN	CNNNNCCNG	GCCCNAAANGA	GCCGNTGGGG	660
GNTTAAANNC	CCCNACCCCC	AAANTTATAC	CCTTTTTTTG	NNCCCNCCCC	CCNNCCCTNT	720
TTTTTTNCCC	NTCN					

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1233UP

	GATCCAGCTT	CCATATAAGC	TCGTGTTTGC	GGTCGCGACC	TCTACAGAAG	TGGTGATATA	60
5	TGATACTGTT	ACCACGAAAC	CCATTGCAGT	GGTGGGAAAT	TTGCATTACA	CCCCGCTAAC	120
	GGACCTCAGC	TGGTCTGACA	GCGGCCACCT	ACTCGTCGTG	TCATCAACAG	ACGGTTTCTG	180
	CTCCTATATC	TCAATGGAGG	ACAGCCTATT	TGGCGAGCCA	TACAGTTCCG	AGGCACAGCG	240
	GACGGATTCT	CTCATACCTT	CGACTCCAAA	AAGCAACATC	TTCAGGAACA	CCCTGCGGTC	300
	CAACCCGGTC	AACGTAAAGC	GGAAGCACTC	TGTAGGCGGC	CACAACGACT	CACCCATAAA	360
	GCGCGCTGCC	AAAAAATGTC	GCCGCTTTCC	CCTGTGGTCG	TCGATGAGGG	ATCTGCGCCG	420
10	GCACACAACC	GCCTACTCCT	AGCAAAGATC	TCAAGCCTCC	GAAGGCGCAT	CCAACCCGTC	480
	CTTGTTTAAAT	GACAACAACG	GCGGCACCTA	GTATCCCCNC	ACGCCATCCT	ANAAGTTTNG	540
	ATTCCNNTAT	ACTNAAATAC	AAACCCGANA	ANCNNTTTTC	TTGTTNACAA	ACTTTTPTTT	600
	GACCTGCATC	ACACTATCCC	GGNGNGGTCA	TTCTTGCCGA	ATGCCCCCTC	CCCCTTANAA	660
	CNCCNTACN	TAAACCTTCC	CNCNTCCATA	TTTACTCATG	AATCNCNGCG	AANTCNCCTGC	720
	GGATCNCNCA	NCTTTTTCGT	AGTNTTCCCC	TTTTTGTTCC	C		

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1235RP

	GATCCTTGAG	AAGCCAGATA	ACGACGAGGA	CGAGGAGCCC	AGTGACGATG	AGGATGCCGA	60
50	CGACTACGAC	TCGGATTCTC	CCCGGCCCGG	CGACAGCGGC	AGCGAACTCA	GAGACCCCTCC	120
	TGCGCCGCGC	ACATTTCGCTA	CGGAAC TGCA	CGGATCCAGC	GTCCTGGCCT	CCCCGTTGAC	180
	CTATTCCCTTG	CGCTCCGTCA	TCGTCCACTA	TGGCACACAC	AACTACGGAC	ACTACATTGC	240
	CTTCCGCAAG	TTCCGTGGTG	TGTGGTGGCG	CATCAGCGAC	GAAACAGCGT	ACATCGTCTGA	300
	TGAAGCTGAG	GTCTTGTTCCA	CACCGGGCGT	TTTCATGTTG	TTCTACGATA	TGACTATGAC	360
	GAGGCGACCG	GGCAGTTGCG	TGACGACTTG	GGCTGCCTAC	AGGAGCCCG	TCCGTGCTGT	420
	CAGATGGGGA	CGGAAGAATA	CGACTCATTG	ACCGGGTCCA	CCAAGACCTC	GATTCAACGA	480
55	NCCAGCTGTT	GCTCCCGCCA	ATAAACTTTG	TTTGGGGCTG	GCCGGCCATA	TNTNCTCCAT	540

GCAATGTTTCAT	GCCCCCACC	GACATGTTTG	ATCCANATAC	TTTTTGTTTN	GTTNCCCCCT	600
TTCAAGNGNTT	CCCCCNAAGC	AAGATTCTTA	NNCTACTTGC	CTNGTTGTTC	CNCCCTGGTT	660
TGGNACCCCA	AATTCCNTTT	NNCCNTTTNT	GGCCCANCCC	NNGGNAAACC	CNCCCTTTTT	720
TTTCAAACCA	GGNTTNCCT	TTTNGCN				

1235UP

GATCACACCC	GTGTTCTTTT	CAAAGGTGAC	CTGCAACTTC	TTGTTATTCA	AGATGATAGT	60
CTCACTGTCC	TTTGACACGC	TAGCAGGGTA	AAATACCGAC	TCTTGGCGGT	CAGCGTTTTT	120
TGCAGCCATG	TTATCCCAT	GCAAGGTGCC	TATTGGGACC	AAACTTTCCC	CTCCTGTGTT	180
CAAGGCCTCC	AAAGCTCTCT	CTATGAACCG	ATCTGCTAGC	TGCACGACCT	TGTTAAGCAT	240
TGGTATTGCT	TCATATTTGT	ATACCATTTT	TATACATGTC	CCGGGAAGGA	CATCGTGGA	300
CTGGCATAAC	AAGATATCTT	CCCATAGAGC	GTTAATATCA	TTAACAGGGT	ACGTGTACTT	360
GTTAGGCGCT	AGTAGCGAAA	CCTTTGTGGC	AAATCCACTCC	AAATCATGGA	TCTTAAACCT	420
AGATAGTCTC	ATCAACCGTT	TAACTGCTGC	CTGTGTCGTA	TACGTGCCTC	CTATGGAAAT	480
CAAAGTTACA	ATCCGCCCAT	CCAAGTTGGC	CAATGNGTTC	CCANTGTCTG	NCTTCNGCAT	540
AATATCACCG	TAAAAACCGT	TTANGGAATC	CCCNACCCCC	NACCTTNGGG	AANAACATTG	600
CATTCCCGGT	TAAAAATTGAA	CCGANACCCC	CCATTGTGTC	CACCNCCCCC	TGTTTGAACC	660
CNCCCCCGGN	CNCCGNACCC	NNAAAAANAA	CCGTGCCNA	ANGTTTCATTN	AAAGTTTGT	720
TCCCCCGGG	TTTAAANCC	NAATTTTNAN	AAGCGTTCTT	TTTCCCGGGG	GGGTTG	

1236RP

GATCTCCCTC	CGGTCGAAGT	ACGTCGACTG	TTTGAGACTC	TGCAGGTGCT	CTTTTGATAG	60
CTTCGATGCC	TTAGCTCCCA	TGTCTACTAT	AACGCTGTCC	CGGGCCTCAG	CTATGTGCGG	120
GCTGCCTATC	TTACTGCCTA	ACTCTTGGA	GCGTGAGAGG	CCATAAGCCA	CGATCGGCGA	180
ATGCCGGTTA	CCTGACCTCC	GGTCCGATG	TGACGCTGGG	AGGCGGTGCG	ATGCCGGCCC	240
TCATGGCTGT	CGGTCGCGAA	GGACTATCTA	CCAGGGACTT	GGCTGCCTGC	GCAATTTGCA	300
CTGCAGCTTG	CAGTGGAGGT	CTTGCGGAAG	CTCACCAGCA	GCGGCAGGCA	GTTACAGCCA	360
TGGCAGAGGC	CAAGCCCCCG	GAGTTGACCG	GAGTTGCTTG	CCAGATATTG	GGCCGTCCAA	420
ATTCTGANTA	GCCCCTTTATA	TNAGANCCCC	NCCGTTGAAC	CCCAAGNTTT	TTTATGCGGA	480
TGGTTTGAAT	TCNGCCCCCT	GCGTTAACCC	CCCCCGAACC	CCTNCCCCCG	GCAAAANCAA	540
ATCCTNCCCC	NGTTCNAAAA	ANCCGAACNC	NNAAAAATTTT	AAAAGAGACA	AATCANNNCA	600
CCCGNGAAAA	AGAGCCCCNT	CTTTTGAGAA	TTCCCCGGGG	GGGGNGTAAA	TTNAACCTTT	660
GA						720

1236UP

GATCTTCGTC	CGCTTGCGGT	CAGGAAATTC	AAGCGGGATG	AGCTCTTGTT	TCAGTTTACC	60
ATAAAAGAGC	TGTTTTACAA	GGTCGAATTG	CTCGCCCTCT	TCATCCAAGC	TGAGCGGGAC	120
GGACGCACTC	TCAATTTGGT	AGAGGACGTT	CCCAATGCAT	TCCGTACACAT	CTTGCTGTCT	180
GCCAATCTCC	AATGTGTTTT	CTAGCTGGTC	GGAACTAATT	TTCCGCAACAT	AGGTGGAAGT	240
TTCAAGGGCT	TCGGCTCTTG	GACTCCCGAC	CATGGTGATA	TCTTTACCTG	AGTCATCATT	300
CTCAACAGCC	TGCCTATCCT	CAAGCGGACC	TGCGCTGGTG	TTTTTACCCN	TTGGGNGGNN	360
GAANTCCAA	ANNCCCCCTT	TCTGGGGTTC	TTGGAAAGNA	TTNGGANAAT	TTNNTGGCCC	420
GGTTNTTACC	NTTTTNGANA	GAGACCCTTG	GNNNTTCNAN	ACCNAATN	TCCCNNGGGG	480
CNCCCGCNC	AATNTTTTTN	TNTCCAAANT	TTCCNAAANN	CCNCTTTTNT	GCTTTTCCCC	540
NTTTNGGNGG	NAGCGCCCCA	GGGGGNC	CGAANTAAATC	NGGGGGNTGG	AAAAANAAAA	600
NAATTTCCCA	NAGGGGTNTT	TNTTTTTCN	TCNGAGAAGG	GNGGTTANAA	AAACCCATT	660
TTTCCCCCN	NTAGANAACC	CCTTTTNCNC	CGGGGGNTCC	NGCCGGGGGG	ATTNTTGNGG	720
GNGCNTTGN	NACCTCCCTT	CCCCNCTATA	NAAATNCCCC	CGGGGGGGGG	TTTNTTTTTT	780
CCCNAAAA						

1238RP

	GATCACGGCA	ATGAAAACT	ACGCAAACT	TACAGACTTT	GAGTGGTACA	TCGCCCTGCT	60
	TTCGGATCTC	TGCATAGTCT	CCCAGGACCT	GCAAGACAAG	ACCCCTCGCG	AGAAACTGGG	120
5	TGAGCAAATT	AGAAACATCA	TGGTGAAGGT	TCCTGACCTG	CGGGATCGCA	CTTTGGCGCA	180
	GATTGTGCAG	CTGGTGAAGA	GCGAGGACAT	CACGGCCCGG	CTGCCCGGTG	TTCTGAAGGA	240
	GTGCATCTGG	TGCCTGGGCG	AGTATTCTGC	GTTGCTCGAC	AATAAGGATG	AGTATATCT	300
	GCTATTGGCA	GAAAAATCGA	AATTATATGA	GCCTGAACTA	CAGCAAACTT	TGATCCCTGC	360
	CATTTTGAAG	ATTTATAGCA	ATTGGTGTAA	CGAGTCCGTG	GTCGACACGG	GTCCGTATTA	420
	AATGGGTAC	CGAGCGGATA	ATCACCCAC	TAGAAGATCT	AATAATCTCG	AAGAACTTCG	480
10	AAGTCCAGGA	GCGGTCTTCC	GAGGCTCTCG	AATTCTACCC	TTNTTTCTGG	ACNCCCCCTC	540
	CNAATNNTC	TGNATCCCTA	NCNGCTGGCA	NCTTACNAAT	TCCTNGCCCA	NTTCTNCAAC	600
	CCTTTGAATT	NACCNCNNTN	CCNTCGGGCC	CCCCAAAANC	TCNNNNNAAA	CTNTTNTTCN	660
	ATGGGAACCC	CCTTTNCCCN	AAANGAAGCC	ANANNNNACC	GNAAAACNCN	CTTGAAGNGA	720
	TTTCCCGGAG	TTTTTGANAAC	ATTTCNNCCN	AATTTTCCGG	GACGGCCAAA	AAGGGTTTNN	780
	CAAATTANTT	CGGGGGGGGA	AGGGGAANGG	GGGGGNGNNA			

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1238UP

	GATCAGAAAC	GGCCGGCTGC	AAGAATGGAT	GGCGATGAGC	TTCGAGCAGT	TGAGGCATCG	60
	CTTATGCAAA	AAAAGAAATT	CCTCAGATCA	CGTGACAAAG	TTTCGTCAATC	TCTAAATGTC	120
20	GACGGTTGGG	CGAAATGTGC	CGTCTCTGTC	TATAAAATAT	AAACTAGTTT	CTCTACCACT	180
	AGACTGATTG	GGAAATATCTA	AGCTTTCAC	TGATAGCAGC	AGGAGCACTT	CATAATCCAG	240
	TACCTTCTTT	GGCTTATCCA	CAC	TAGTCAT	ATGTACAGC	CAGTGCAGAG	300
	AGCCGCCGCT	CAATCCTTGA	TATCCAAATA	TGTCAATAAG	GAAACGCTAA	AATACATGCT	360
	TACAACGCAC	TTCTGGGGCC	CCGTATCGAA	CTTTGGTATT	CCGATTGCTG	CGATTTATGA	420
	CTTGAAGAAG	GACCCTGAGT	TGATTTCCGG	CCCCATGACG	TTGGCGCTCG	TGGTATACTC	480
25	AGGTATTTTC	ATGCGTTACT	CGATGGCCGT	CACTCCCAAG	AACTACCTCT	TGTTTGGGTG	540
	CCCACCTTAT	AAACGAGTCC	CGCGCAACTC	GGACAGCGTT	CCCGCTGGCT	CAAGTTTCAA	600
	TTACTTCGGC	GAGAGCCCTG	CTGTCAAGGC	ACCCGAGAGA	CCCGCATAGG	TGCGTTTGCG	660
	TCCGCACACG	TTGCATTACA	GCGTCGACCA	CTACATAGAA	TATTATTAAG	CCGACTATCC	720
	TACACGTTTC	TAGAGCTAGT	CGAGATGCCT	TTGGCTGATA	CTGCTGCGTT	GGGCCAGGCC	780
	GTATCTTGCT	CCTCCTGGCT	TTGCTGCGTT	GCGCAGCTCC	CANTTGNC	TTNCNGATNN	840
30	TCCTGTGTCC	CGTATCCATT	GNCTAAATGT	CTCCC			

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1240RP

	GATCTTAAAA	TAAGATAGAA	TGGTAATAAA	TATCATTCAG	GTACAATAGA	TGCTGGTGT	60
	ACTAAAGGAT	TACCTGGAAT	ATAATTATCA	GGATGTCCTA	AAGTATTAGG	TGAAAAGAA	120
5	ACAAATAATG	AAAAGAAAA	TATAAATACA	AATACTGTTA	CTAAATCTTT	AAAAATAAAA	180
	TAACCATGCA	TTGGTAATCT	ATCTAAATTA	CCTGTAATAC	CTAATGGATT	TGATGAACCA	240
	TGTACATGTA	ATAGCATTAA	ATGCATAATT	ACTATTGCTG	CAATAATAAA	TGGTACTAAA	300
	TAATGAAATA	GAAAGAATCT	TATAATAGTA	GGATTACTAA	CACTAAATGA	TCCTCATAAT	360
	CATAGTACAA	TATCATTTCC	AATAAATGGA	ATAGCACTAA	ATAAATTAGT	AATAACAGTA	420
	GCACCTCAAT	GTGACATTTG	TCCATATACT	AAACAATAAC	CTAAGAAAGC	TGCTGCTATA	480
10	GTTAAAAATA	AGATAATAAC	ACCAACTGTT	CCATACAATA	ACTCTAGGTG	ATTTATAAGA	540
	ACCAATATAT	AAACCTTTAC	CAATATGAAT	ATACATACAA	ATAAAGAAGA	ATGAAGCACC	600
	ATTAAGAATG	CATATATCTA	ATTATCCACC	TATTGTACTC	TCTCANATA	GTTCCTACCT	660
	GATGANAAGC	TATCCATATT	ANAAGAATAT	GCATACCTTA	AAAAATACCGT	TANAATTGAA	720
	TACTAACATA	ACCTATAANA	CCNAATTCAC	CATAATAATG	AGAGGGTGAG	GNGAACCAT	780
	CNTACNATAC	TAATTTAATT	ATTGATTTCT	TTCCCNTTTT	ATTATTAAAT	TTTAAT	
15							

1240UP

	GATCTAGAAT	TATTAAGTCA	ACTATTAAC	AATATCTATA	ATAATAATGG	TTTATCATT	60
	AAATCATTAA	AGATAATTAT	TAATAAATTA	CCATTTAATA	ATGATATATT	ATTATCAAAA	120
20	AATTATGTTA	ATAAAATAAA	TAAATATAAT	TTACTAATTA	ATAATAATTT	AAATAATAAT	180
	AAAAAAGATT	TAATTAATTT	ATATACTTTA	GATAATAAAT	TATTAGATTT	AAGTATTCTT	240
	AATAATATAT	TATTAGGTAA	ATATTTAGTA	GGTAGTAATA	TCCAATTAAA	GGGTAGACTA	300
	TTAAATAGAA	ATATTACTAG	ACTAATAAAA	ATAAATATTA	TGAAAGGTAC	ATTTAATAAT	360
	TATATATATC	AATGAAGTAA	ATTAAATAAT	TTATATAAAT	TAAATTATAT	ATCACTTAAT	420
	ATTAATAAAC	TTAATAATCT	ATTTATTAAT	AAAAATGGTA	TATTTAATAT	TAAAAATAAA	480
25	TTAAATACTA	TTTAATAAAT	ATCTATAAGT	AATTTCTTAT	TTATTTTATA	ACATTTTAAA	540
	ATGTTTTATG	TTTAAATAGA	TAATAACAAT	TAAATAATAA	AAATTAAGAT	GCCACAAATA	600
	TTCCCATTTT	CCTTTATGAA	TCAATTACTT	ATGGTTTCCT	ATTTATTTTA	CTATTTTATC	660
	CTTCTATCTT	ATGNTTTTTA	CCTAAGAATT	TAANAATATA	TACTCCTAAA	TATATATTCC	720
	NAAATTATAA	TAGTTATTAA	ATTTTAATTA	ATCCANTATG	ATCCNTATTT	ATAAATATAT	780
30	AAGAANATTT	TAATATATAT	ATATGAATNT	TATATCNCCN	TGAACCATTG	NAATNNATTA	840
	TAGTTTACAC	CCCCANATC					

1241RP

	GATCTAAATA	TATATAATTT	AATTTATAAA	GATTAATATA	AACTTTTTTA	TTATAATATT	60
	TAAGTATTAA	ATTATTTAAA	CTATTATTAT	CATTATTTAA	TAAATTAATT	ATTTGATTAT	120
35	TAATACTTAT	TATATAATTA	TTATATAATT	TACTTAATTC	ATCATTATTA	ATATTTATAT	180
	AATTATAAAA	ATAATATTTA	ATATGAATAC	TATTTAGTCT	ATGTTCAAAT	TTTAAATTAG	240
	TTATTAAAAAT	ATTATTAGAT	ATTATTATTT	TCTTTAATAA	ATTATTAAAT	AGATTATCAA	300
	TAATTAATAT	ATTATTTATT	AATTGTTTAT	TAAAAATAA	TATTTTATTA	TTATAAAGAT	360
40							
	TTAATTTATT	TAAATATTGT	AAATTATTAT	TTTTATTATA	ATATCTATTT	TTATAAATAT	420
	TATGTTGATT	TATATTATTT	AATCTTTTAA	TAAGAATTAT	TATTAAAAAT	AATTTTAACT	480
	TTAATTTCTT	ATTATTAAAT	TTTATATTAT	TTAATAAATT	ATATTTCAAT	TTATTTATTT	540
	ATTTATTTAA	TTAAATTAAT	TATTTAATTA	ATATTTTATC	ATTATTTAAT	TAATTAATAA	600
45	AATATTATAA	AGAATGTAGT	TAAAAATACT	TATAAAAGGA	TCCGAACCTA	TATTATTGTT	660
	TATGAGACAA	ATGCTTTAGC	CCATAAGCTA	TATAGTTTGA	CTATCATTTG	AGANTTGGGT	720
	NCNCCCCCTA	TGCTNNCATC	CTGNTGTCCC	CNCTAAANGA	ATTTNTTTNT	TNANANATGA	780
	AAAANTTATT	TATCAAAGAA	TTATAATTTT	TTAANAAGGG	GNANAAGGAA	AGACCCG	
50							
55							

1241UP

	GATCTGTATA	CTAGAGCTTA	TTTTACTTCA	GCTACTATAA	TTATTCTTAT	TCCTACTAGT	60
	ATTAAAGTAT	TTAGTTGATT	ACTAACTATT	TATGGTGGTT	CATTAAGATT	ACTAACACCA	120
5	ATATTATATC	TATTATCATT	TTTATTTTTA	TTTACTGTAG	GTGGTTTAAC	TGGTGTAGTA	180
	TTAGCTAATC	TATCATTAGA	TGTAGCATTG	CATGATACTT	ATTATGTAGT	ACTACATTTC	240
	CATTATGTAT	TAAGTTTAGG	TGCTGTATTG	TCTATGTTTG	CTGGTTATTA	TTATTGAAGT	300
	CCTCTTGTTT	TAGGTTTAAA	TTATAATGAA	AAATTATCAC	AAATTCAATT	CTGATTAAAT	360
	TTCTTAGGTC	TTAATATTAT	TTTCTTCCCT	ATGCATTTC	TAGGTATTAA	TGGTATACCA	420
	AGAAGAATTC	CTGATTATCC	TGATCTATTG	CTAGGTTGAA	ATTTAGTATC	TTCAATTTGGT	480
10	TCTATAATAA	CTATTATATC	ATTAATGTTA	TTCTTTTATA	TTATTTATGA	TCAATTAATA	540
	AATGGTTTAA	CTAATAAAGT	TAATAATAAA	TCTATTAATT	ATATAAACT	ACCCTGATTT	600
	TATTGAATCA	AATAATATTT	TCTTAATGAA	TACTACTAAA	TCACATCTAT	GATTTATATG	660
	AATCACCAC	CTTAATCNAT	CAATTAAACC	CTCTAATCCA	ACTTTAAATA	NNCTTAATTA	720
	TAAATTANNA	ATAAATTTAG	TGGAANAATT	AATNGTAANC	AATNTTTTNA	NGGANTTTAT	780
	CTCNNTCCAA	CCGAAACTAC	TTTTATCCTT	AANNAAAACC	TTTAATNAAT	GGACCNCANA	840
15	NTCNNAACNN	GTTTTTC					

1242RP

	GATCACGTGC	TAAATGTCCG	GGTACATTAG	TGCACCCGTA	CACCGCATT	CGACATTACG	60
20	ACGCTTCTTG	ACTAACCAGG	TTATCACGTG	TATATAGTTA	CATACGAACG	TCTGGTACAA	120
	GGAAAGACCG	GCCGGAAGTC	CACCTCACCC	TTAAATTGCC	ACATTTTCATG	AGCATTTACA	180
	ACAGAAGCAC	AGCTGTAAAC	GTTTCTCGAA	CTCGTGAAGT	TTCATATTTG	TCCTTAAGGG	240
	CCCTTGATGT	TGCAGTTCAA	GCTAGTTCTG	TTGGGAGACT	CGTCGGTCGG	TAAGTCGTCA	300
	ATTGTTTCATC	GCTTCGTGAA	GGATTTCGTT	GATGAGTTCC	GGGAAAGCAC	AATCGCGCC	360
25	GCATTTCTGT	CCCGTACCAT	CAAGCTGGCG	GACCACGACG	ACGCAATGAT	CAATTTGAGA	420
	TCCTGGACAC	CGCGGGACAG	GAGCGGTACA	AATCGCTGGC	TCCGATGTAT	TACAGGAATG	480
	CGAACGCCGC	GTTGGTGGTG	TTATGACGTT	GACACAGGAG	GATTCTCTAG	CAAAGGCACA	540
	GAGCTGGGTT	GAACGAATTA	AGAGCAGGTT	GGTGACGAGA	ATTCTGGTAT	CTCCCTGTT	600
	GGGCATAATT	GATTNGGGGA	NGAGGANCGG	AACCNAGGTG	ATTGACNCGA	GAACNCAGGC	660
	TCCCCAAACC	CNNGGTGANT	TCCCCNAGGT	TTNNNCCAAA	CCGGCCGGTT	NCCGGATTTN	720
30	TTCCNNGGAT	TGGGGGAANN	CTAAAACNCG	GCNATTCNT	NGGGGCCCCC	CCGCNTCCCC	780
	ANTTTCCNTT	CAAGNCCCC	CAAAGAACAC	CCTGGGGNTT	ACCCCCCCCC	N	

1242UP

35	GATCTTGTCG	ATTGTGAAGG	AGGAGACGAA	AAACGCTACC	ATCAGTGTG	CCGTCGAGAA	60
	CAAGCAGCTC	ATCCCATTCA	TTTCGCTGGC	GGACGTGGAG	ATTTCCGAGG	ACGTGACTGT	120
	GAAGGCCCTC	CCTAACGGCT	CTGAGAAGAT	CGTTCTTATG	GGGCCACGCG	ATGAAGCGAA	180
	GGAAAGCAAAG	GTGAATGTTT	AGAATTACTT	GAACACTTTA	GCAAGCAAGG	TATCTGAGAA	240
	AAAGATTTTC	ATTCCTCGCA	AGTTCCAGCC	TCTGATCGAT	GCAGAGGATG	TCAGGGAGAA	300
	ATACAAGGTC	TCCGTTATCT	TCCCAACCGC	CCTTGGTGAT	GATACTGTGT	CGTTCTACGG	360
40	ACTGTCCGCT	AATCTTGATG	ACGCGATCGC	ATATGCTCGC	CAGTCGTCTA	AGCAGTACAT	420
	GGTAGAATCT	TTGGAGGTAT	CCAAGGCTCA	CGGAAAGAAT	GTCCGCTCATG	CAAAGAATTT	480
	AATGTTCTAC	TTCCGCCAGT	ACGAACCTCT	CCAAGGATAT	TAAGGAATTC	GTTCCAAGGG	540
	ANTTGAANTT	TTGTNCTACC	CACCTCCGGA	GGGATTTGCC	CGNTTTAAAN	AAGNTTTTNA	600
	ATNCACANTT	TTTCCAAAGG	GNGAATTTTG	GGGNACAAAA	AAAANTGTNT	TCCCCGNCNA	660
	TNCCTTATTT	NTTAACNACC	CCCCCTCCCC	NGTTTCCNCC	GNTGAANACC	NAANTATNAC	720
45	CCTTTCCCCC	AGNGATTTAC	CNNGGCCNTN	CAGGGGANTC	CNC'TTTT'TN	CTCCGGANTC	780
	AANAAAGGGA	AANACCNGNN	GCTTTTGCCA	GGNTGANAAA	AAATCCNCCC	CCCCCAGAGG	840
	TAAGANCCNN	GNAAGGNGNG	CCCNTTTGGA	GAATNCCC			

1243RP

50	GATCGCTAAT	CCCAGGTTTT	GTTTTGAAGT	CTGTGATCAG	TTGGTTCTCC	ACATCTTTGA	60
	GAATTCCTAAT	AGCCTCCGAT	GGCAGTTTCT	CCAATTCCAT	TCCGACCTGG	GCAGACTGTA	120
	TCTTTAGAGA	GTAATTTTCC	ACACACAAAG	AGTCAATCTT	GTCTTGAACA	TCGTCAATCA	180
	TATACTTCAG	TACATCGTTC	ATGTTTGGTA	GATTCACTGA	GCTTTTGAGT	GCGCCTTTTC	240
55	CTAGCGCCGA	AAGGTTCCCC	GCTTCATTCT	ATGAGAAGCC	TAGAAGTGAC	ATCATGGCGT	300

EP 0 866 129 A2

	GGCAGCATGT	CTTCCGCAAC	TGTGACAACC	AATAATTCAA	GACTGCGGGG	CCTAGATAAC	360
	AGGGCCCCTTG	CCCGTCTGAG	TCATAGCCTG	AAGCCTCCAA	GAAGGATTTC	CATAGGTTAA	420
	CATAATTATC	ACGCTCTATC	GGTGAGAATT	GAAGTTGGAT	TAAGTAATGA	TGCTGCTTTG	480
5	GGATTTTAAT	CTGATATTCT	ACATCATTTCT	TTGTATGACG	GATACAAAGG	TTGAAACGTG	540
	GGATGATATC	AAGAAGTTCT	CTTGCGGTGA	AAGTCACACC	GTTGACACGT	TGGAGCTTTG	600
	CGAATTTGTT	GCGGGATCTA	GATGCATCCG	ATTGTTGCCC	AGTTCCCTGG	TATTCTGGCA	660
	GA CTGTGTTT	GATATACTTT	GGAGATCCCT	TGAAGGGATG	CACTGCCATT	AGAAATACAC	720
	CTTGAATCCN	CTAGTGAATG	ATAGGTNTAC	CCGAACCCCC	ANTTTTGATA	CCCNGCAGAG	780
	TTTGTNCATC	GGCCCCTTCT	NCTTCCTGCC	CACATTGCCT	CCCNATTTTA	TCCTGAAATG	840
10	CTTA						
15							
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1243UP

	GATCTCGTCC	CACCACGGGC	GCAGGAACGT	GTACTGGCCT	TTTGAGATCA	ACTCTGTCAG	60
	GACGTGCATC	TTTTTCGTCT	AAAAAGGCGG	GAAGCCGCAC	AACACGGTGT	ATAGGACGCA	120
5	GCCGATCCCC	CACATGTGGA	CCTTCATGGA	GTAGCGTTTCG	TCCTTCACCA	CCTCGGGCGC	180
	GGTGTACCCG	ACAGTCCCGC	ACGGCGTCTG	GGTGTGGTA	GCATAAATTT	GCTTCGAGAG	240
	TCCGAAGTCT	GCGAGCTTTA	TCACACCGAT	CCCGCCGCC	CCGATGCCAG	GTCGGAACAG	300
	GCCCTCGTCT	TGTTTTGTCT	TTGGGTCTGTC	CGACTGTCTC	AGCTGCTGGC	GCTTGCTGGG	360
	TATAAAATCA	ATTGGGGAGA	ACAGCAAGTT	TTCTGGCTTG	ATATCCCGGT	GGACAATGCC	420
	AAGCGAGTGC	ATGTGTTTTA	CCGCGAGTGC	CAGCTGCCTG	ATTACATGTC	TAGAAAGGTC	480
10	CTCCGAAAAA	TAAGTGAGTC	GCACGATTTT	TCCAAAAATC	TCCCCCCCCG	GCAAGCAGCT	540
	CCTGGACTAT	GAAGTAGTAT	GACTCGGTCT	CCCTGGAAGT	CGATAAACGT	CACAATGTTT	600
	TCGCCCGAGG	ACACCGCCTT	GTGGATGGTG	ATCTCCTTCA	GAAGTGTCTT	CGCGATGTCT	660
	CTGTGTTTCG	CGGCTCCNCC	CNCTTNNNNC	GGGCCCCCCC	NCGTGCCCCC	ATCGTTAANA	720
	GGNNCCTTTT	GCTGATCNCC	TTGACGGCNC	CGTTTNNNTAC	NGNCNAAGTN	CCCTTTTCGGN	780
	CGNCCCTTCAG	CGGNCCNNCG	ANNCCNCGN	AAACCCCNCC	CNATTTNCCC	NAACTTNTCC	840
15	CNCAANCCAA	GNNCCGAANC	CCCCC				

1244RP

	GATCCTGCCT	TATCACGAGC	GCCATCCGAA	CTTCCCCCGG	GATGTCGTTG	AGAGGTAGCG	60
20	AGCTCACCTC	CACAACTTCC	TCATCTGAAT	CGTCTTCGTA	TGTACTATCT	AGCTCTTCAG	120
	CGTCGCGCGA	TGCAGATTCC	GCCCTGTCTT	TCACCTGTTT	CAGCACCGCC	TGTGCGTTAA	180
	GCCTCAGAGAG	GCAGGCATGT	GTCGCACCCC	CGTATATCTG	GCCCAGGTAA	TACCCCGTGG	240
	CCAGCGAAGC	CATCGTAACG	CTCAGTATGA	ACGGTAAGTT	GATACCTGCC	ATCCTAGTTT	300
	CTGTTTGGTA	TTCTGCATGC	TGAGTGCAGC	AGCCAAGTTG	GTTGAAAATT	CCTTCAAGCT	360
25	GACAATCGCT	GGTCTGCGC	GCAGTTCAAC	ACAGCAAAAC	TCAGAGAGAG	GTATAAACGC	420
	CATATATAGG	AGGAGACTAC	TCTATTCACT	GCCTATCTTT	TCAGCCCACA	GTTCTCTCTG	480
	CTGCAGAATT	TGTTGTGAT	TCCGCCAGCA	TTTTGTTCAT	CGTCTCGACA	TATTCGTCCG	540
	TTATGATTCC	GAATCCGTGG	AACATTCCGC	CGCCAGCCTG	TTAGATTAGG	CCACACCGCC	600
	CTTGTTAGAC	CATAGTGCGC	GAGTGCGATT	ACAGGTTATC	CNTCGAACAC	CATCCGTAGA	660
	ACCAGTGGCT	ACNCTCCGGN	GTTAAACCCC	TACGCTNCCC	TTCCACTNTC	CGATAGTCCA	720
30	TACGCGGAAT	TTGGGGGGCC	AAAAAAGTGC	CCNGCAGGAA	CNCAAACGAA	GNNTCAACGC	780
	CNTGTNTTGG	GCNGGTGCCN	TTTCCNCAAA	NCAGTGCCTA	NTTNTAANCC	NGCCNCTTAT	840
	TNTCCCCCAT	T					

1244UP

35	GATCAATCTG	ACAGTTGGAT	TGATACCAGG	TGCTATCTCC	TTATCAGCCT	TTACAGTGAC	60
	GAAGGAGGGA	TTGGATTGGG	GAATGGAGAA	TAAAGATATT	TTTGATCCAT	CACCAGAAGG	120
	ATTTGATCCC	TCTTTCAGTG	AGCATGCCCC	ACTTTTACTC	TCGGAACGTA	TAATGGGAAA	180
	CTTCTCGTT	CCAAAGTCTG	GCATCTGGAA	TTATGCATTT	ATGGGTGCTG	GATTTAACAG	240
	AGAGCTACGT	TACGAGCTAT	CTCTCGACAT	ACCACTCGGA	TTTATGATG	AACAGCACCG	300
40	TGCAACGCAT	TTCTTACAAT	TCAACGAAGT	GGCAGCTGAC	GATACTTTGG	AAGCAGAACA	360
	GGAAGATTTA	TTCTCCTAAG	TACATATTAA	GGATAGAGCC	AAACTTGCAA	CTAGCTTCAG	420
	TTGCGTATGA	ATCCCATATA	TGTATATATC	AATACACGGG	CCACTCATGG	CTGGTGACCC	480
	ATTTAAGCAA	ATACCATATT	TTTAAATGTT	GCGGTGATTT	TATAATCTCG	ATATCATGAT	540
	TTTATTTATA	GGAGATGACT	TTTCCCTCTA	CAACGCCACA	TTATAGAAGA	CCGTCAATGC	600
45	AGCACCCAGG	CTGAAGCCAG	AACGGAAATG	TTGGAACCCG	AACAGGCAGG	TTTGAATAGC	660
	TCGACATATG	AACCTCCCCA	GAACATGTTT	TTTTTGAACA	TCNAATGANT	TTCTGCCAAA	720
	AACANGAAAA	TGGACNCCNN	GCATCATTCA	AAAAAAACCN	TCCTTGAACC	TGACAAAAAA	780
	TATGCACCCN	GATTTTGTGA	TCACGGANNG	TTTTCTTTAC	NCCAATTAAA	TAGGNCCCCC	840
	NGAGATTTPT	ACACCCNCC					

1245RP

50	GATCAAAAAAC	AGAGTACCCCT	CCGCACGAAC	TTCCCATATG	AGGCCAGAG	AGAACAACAT	60
	CGCCGATCAC	CTATATCAAC	AACGGAGACC	TTGGTCTGCC	GAGAACGTCA	CAGCTTATCT	120
	TATTATCGAT	CGAATGGATG	TTGGAAAGAA	GATACAAAAT	AACGCATAAT	TGCTGAATAT	180
55	ATTGCACGCT	TCTAACGCAA	ACGACGAGCC	TCACGCTCAG	ATTCCATCAA	GACCAAGATG	240

	TCGTTCTCTC	TAACTGGGCC	CTTGACGTTT	CTGACAATGG	TTCTGGAAGT	GTCGTCCAAG	300
	AACTCAACGC	GGACCTGGGT	GACACCACCA	CGAGAACCGG	TTCTACCTAG	AACCTTGATA	360
	ACCTTAGCTA	GAGTGACTGG	GGTCTTGGAG	TCCATTTTGA	TCTATTGCTT	CTTGGATATA	420
5	AAATATCTAG	TAAAAAGTGC	TGAATAGGTG	AGAGGAAGAT	ATCATGAACA	GGCGGTTTTT	480
	TTTGATGCCC	CGAAAAATTT	TTCAGGTCTG	CGATGCCCAT	CGCAGGTGAA	ATGTGCTTGG	540
	GTTCTTGAAA	AATCACATCA	TACGATAACT	ATGCGTGAC	CCAAAGGCCT	TGGCAGCAGC	600
	GAAGTGCGCG	AAGGTTAGCC	AGCCCAGAAC	GAAACCTGAG	AACAGGTTAA	GCTCAGGTGA	660
	ATTGTTTGCT	TCTATTGCCT	TACAGTTCAT	CTTCCGGTAA	TTGCAGTATC	CGTTGATTCC	720
	CCNCAGCTGA	CCAGCCGTIN	ATTCCCGTTT	GAACTTTTCAG	AGNTCNTGAA	ACCCTNGTNT	780
10	TTTCAACCCN	TGACACNTAT	ATCNCCCCCT	TATATGACTT	CCGTCNATNC	COG	
15							
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1245UP

	GATCCGGGTA	ATACAAACGCC	TCGGACCCCT	CGGCGGCTAA	CGAGAAAATC	GCGCTAAGCT	60
	TCCAGCCTAA	TCATAATAAA	AGGGGCATTG	GTGGAAGCTT	TCTGGTACTT	ACGCGAGTAA	120
5	ACAAAAGGCG	CAAGGACGTT	TCAGAAGAAG	CCAGAAGCAG	CAATGAGCGA	GATCAACTCG	180
	ATCATTCACA	GAGTGAATGT	ACTGGTCTCA	AAACTGCCCA	AAGAGAAGGA	TGCAGGCCCTG	240
	GAGAAAGAGT	GCGCGCTGAT	CAAGTTCGGC	GGCATGGTAT	CTAACC CGCA	ATCGGGCCTG	300
	TTGTTTGGAG	AACTGGCGCA	GCAGATGGAT	CGCACAGCGG	TGCTACGGCA	GCCATGGATT	360
	GTCGAGTTTG	TTGTGCGCTT	GGGCAACGAG	CTATGCCGGC	GTGGCGAGGT	GGGCGAGAGC	420
	TTCTGGGGCA	AGATATTGGT	TCCGTTGGAT	GGACAGACCC	CGTTATTGAC	AGTTACTAAC	480
10	AAGAATCCAG	GGTCCGAAGT	TTTCGCGTAA	TGTTGCGGTC	CATGGCCGGT	TGGTGGAGGC	540
	GCTGCTGGAC	GGCGCCTTGT	CGCGTACGGC	TCCCTGTGCG	TGGCAGAAAT	TGGCGTTGTT	600
	GCTCCAGCTG	TCCTATNNAC	CNNCCGGATT	NTCCGGAAGT	TGNTGNCCCC	CCTTTACCCC	660
	CCCCCTNNCN	AGNATGGTTG	GNGACCNTTT	GNNCGNTTNC	CAACTTCCTT	NTNCCCCNCT	720
	TTTTTTGNAC	NTTGAANCNA	TTTTTCCCCC	TTNAANTCAA	CCNACCNGTT	NTNNCAAACCC	780
	CCCCCCCCTT	TGGGAAAAAN	AGNAAAAAAN	ACCTTTTCCA	CCCNCGATNC	CCTTTGGNCA	840
15	NCTGGAACNG	NNNTNTTTCNC	CCTC				

1246RP

	GATCAACAAT	GATTGTGGCG	ACGGGCGGCG	GGGCGTTCAA	ATTCTACGAC	GTGCTGCTGT	60
	CGGAATTTCC	GGGCGTGTCA	GATATCCTCC	GGCTGGACGA	GATGGACTGC	CTGACGAAGG	120
20	GGTTGGACTT	CTTCATCCAC	AAGGTGCCCT	ACGAGGTGTT	CACATACAAC	GACCTGGACG	180
	GCGAAGGCAC	GGTGGATGCG	GTGGCGGATG	ATGAGATGTA	CCCGTACATG	CTAGTGAACA	240
	TAGGATCCGG	GGTCTCGATT	CTGAAGGTGG	AGTCGCCCAA	CGAGTGCATG	CGTGTGGGCG	300
	GCTCGTCATT	GGGCGGCGGC	ACGTTGTGGG	GACTACTGTC	GCTAATTACT	GGGGCGAAGA	360
	CGTACGACGA	GATGCTGGCC	TGGGCAAAAC	AGGGCAATAA	CGCGAACGTG	GACATGTTGG	420
25	TAGGCGACAT	ATACGGCACC	GACTATGCGA	AGATCGGCCT	GAATCCAGT	AATATTGCAT	480
	CGTCGTTCCG	GAAGTCTTTC	CAACGGGAGA	GCGTCACCCG	GCCCCTCGGC	GGGCTGACT	540
	TGGGCGTCTG	CGACCTCGAC	GTGTGAGATC	CGAGATTGCA	AATGAGAAAT	CCNNCACGCC	600
	GAATNTTCCC	ATCCCTCNTG	TACCCATCTC	CAACAAATCG	GCCAAATGCT	TNCTGCAGCC	660
	AAATCCCCAA	TCCAAAAAAA	NNTCTTTGCG	GTCTTTATNT	CCCCGCTTTT	TACCCCTGTA	720
30	CCCTTTACCC	CCCCCTAACT	CNGGTCNAAN	GNTTTTAAAC	NCCCNCCCCC	TNAGGNTTAA	780
	GGTNNTGGCC	CCNNGGCCCT	TNTTGCCCCA	AAAATTTCCC	NNCGNTTCTN		

1246UP

	GATCGTAGAG	CGTGAGACGG	CACCGGCGGA	GGCGCCAGCG	CCGGACGGTG	TGCAGCCACG	60
	GGGGTTTCCT	GAGCTGTACC	GCCCCGCGAGC	GATATCTAGC	TGGCGCCAAC	GGCTGCAGAA	120
	GAAGAATGGG	CAGCGCAGGC	CGCCCGCGGC	GGCCCTCGCC	GCAAGCGAGG	CGGAGAAGAT	180
	CCACAAGGAA	AACATGGCGT	ACATCGAGGG	GCTGTGCGAG	GAGCAGCGGA	CGGCAGACCG	240
	CCGCGAGCTG	TTAGAGAGCC	TGGACCCCAA	GGTCGTGCAG	GCGTTGTACC	GTCGGTTGGA	300
	TGCACGTGCA	GCAGCGGACG	GAACGGCGCC	CTTAGTGGCG	GAAGTCGAGG	GAGCGGCAGG	360
40	CACGTGGGTG	GGCGGCACCC	GCGAGGAGCC	GATGATGCCG	CGCCTGGATG	ACGCGACCGT	420
	CGACGCCGCG	CTAGGGCGCG	CACAGGCTTC	GATGCCAGAG	GCCGCGCCCA	CGTACGACCT	480
	GCCAGCGCCG	CTGGAGGATG	CGGACGACAT	CGCGCCCCAG	GAATACCAGT	TCATCAGCAG	540
	ATGGACCATA	TGAAGGACAG	GACTTGCTAC	GAGATATCCA	CTTCTCCGCG	AATGAGACTG	600
	TGGCGCCCAG	ACTGGACATC	AACGACCCCA	ACTTTATGAG	CAGCTGCACG	AGAATACTTC	660
	CGGATNTTCC	GAAAGAAANA	AATAACTNGA	ATGGATGAAG	GCCACTGAAC	CCTGACACTC	720
45	TTCTNCTAAC	TCNCCGATTT	TGCCGAATGC	CCTCCAACCT	AGGGCCCCATG	TCCCCCCCCC	780
	CCGGAATTTN	NTCCCCNNA	CNGCCTCNNC	CCTTCGAAAA	CCCCCCTTTN	CCGGCNTTCC	840
	TCCCATTGTC	ACNTTCCCCA	C				

1247RP

	GATCTGGCCG	CGCAGCTGCG	GCCTCGTATT	GCTCCCCCTG	GTTACTGTGG	CGCCGCCGGC	60
	GTGTCCTTAT	CGGCATCGCG	TACGCGTCAC	TAAGCCCCCTC	CAGGACGGGC	ACAAAAAGCG	120
	CAGGGCGCTC	ATAGAGCACC	ACAGCGTCTG	GGTCGGGAAG	CACGTGCATC	CGCGGCGTGT	180
	GCTTGCTCAC	CGCCTCGTGC	GCCTTGCCCC	GCTCTGCCAC	CGGCGCAGCC	GTTGCAGCCC	240
55	CGCGGGCCGC	GGGCGCCCTG	TGCACTGTAG	CGGCACGGCC	GCGGCGGACG	CTCCGCTTGC	300

	GGACCGCCTT	GATGACCCGC	TTTGCGCCCG	GCCCCGCGCG	GCTCGCCCGA	GCGAGCGCCA	360
	GCCCCCGCTG	CACACGCATC	AGCATCCCAT	CCACCGCTTT	CCTGTCGTCT	TCCACCACGC	420
	TGTGCGCTGA	AGCAGACTCT	GCGCTATCTC	CTCCGCTCG	GACGAAAGGC	CTCGTCGCTG	480
5	CTCGACTCGC	TCTGCCCGTA	CTTCCGTCGA	AGTACGCGCG	CAGTGCCGCC	GCGCGCTTCG	540
	CCTCCGCGGC	CGCCGGCGGC	GCGAAGGGCA	CGTTAGGGCG	CCGAGCCGCC	GTCAGACCTT	600
	CCTCATCGAA	TCCGAACCGC	TCGCGCCGTC	GCGCCAATCG	CCCACGGAAC	CANCCCCCGG	660
	GGGGGTTNCG	NGGCCCGGCC	GGCCCCCTCC	TTTNNAAAAC	GACNACCNCT	TGNAAANCCG	720
	TTACCCCNEN	CNNTTCAAAC	NCNNGGAAAA	ATTTTCGNEN	ANNNNNNNNN	CCCCCCCCCT	780
	NTNCTNNGAA	ANAANGNCCN	GGCCCTNNGG				

1249RP

15	GATCATGCAA	CATTTCTTCT	TTTCCCGCTT	TCTGCCTGTG	CCGGACGGTG	TGTCCCCGCC	60
	CCGCACCTCT	GAGGAAGAGC	TTGCGGACTG	CAGCGAGCAT	GCCCACAGTA	CCTGGGGCGA	120
	CTGCTGCGGC	ATTCCGATAC	CCAGCGCGGT	GGCCGCCCTCC	GAGGCCACTC	GCAAGCATTC	180
	TAAACCACTT	CCATTCGATT	GAATCAAATT	ATATATACCA	TTAAGTAGAG	CTACCATGCG	240
	AACCTTAGCT	GGGACGCAGT	AAAGATTGGC	GGTTTCCAGA	TCAGCTTCTC	GGGGTTCGATC	300
20	GATCGCCTTT	TCTTCGCTAT	CAGCTTCTCG	TACCTTAGCA	GCACGTCCTC	GTTTCAGGTAC	360
	AAGATGTGCT	GGCCCTTGTA	ATATCGCAGT	ATGTTAAGAG	CCTTGGCTGT	GTGCAGTATG	420
	TCTGTAGTCG	TGAGCGATGT	CATGCTACTG	ATTTCAATCGA	TCGTGATCTC	GGTGCCGTTT	480
	TCGACTAGCA	GCTTGATCAG	GGTATCGGAC	CAATAGGCTC	TGTAGAGAGC	AGCCCAAGAT	540
	CAGAGAGCGG	CTTCTCCGGC	ACCCAACCTG	TTCTCCTTCT	TAGAGAGCTC	CATACGAAAC	600
	TCAATCAGCA	GCCTGCCGTA	CCCCATCCGC	TGGTACTGAG	GGAGCGTCCA	GAATACACGC	660
25	CACATTGTAC	CCGTCCGCCA	NTCCCTTCCN	TTGGANAATN	CCCACCAAGT	NGGTGCCCCA	720
	CTCACTCCCC	TGTGTTCTTG	CANTAAAAAA	AAGGTCAANT	TCCTATNACT	CNTGTGNTCC	780
	AAAAAATTTT	GANAAAGNTN	GTTGCGNACC	ACTTCCTNNT	NCCCCGTCAA	TTCAAAT	

1249UP

30	GACCTGCCGA	TGGACNGCCG	TTGGCAGGTG	ACTGCCCTAC	GGTCTTTAGT	CCCCGCAAAG	60
	CGGATGGCCT	TTGTGCGCAC	ACGCAAGAAC	TTGGCAATGA	TGTTGACCAC	GTCCATGGTG	120
	TCCTTATTCT	CCTTGATACAT	TGTGAAGTGC	ACGCAGTTCT	TGGAGGGGCC	GTACCCCCAG	180
	TTAATGACAC	CGTTCTCGTC	TCTTGTCTGC	TCCACATAGT	CCTCTTTGCT	GACTCTGGTT	240
	TTACGGTTGG	CCAGGGCAAT	CTGGAATGTG	TTGGACGCCG	AAGTGACCGA	TTCAAGCTCA	300
35	TTGTTGAACG	CCTTTTCGTAG	CAGCTGGTGG	ATCTTCGTCC	GTGCAGCTTT	GTCGTCAAAG	360
	CTCCTGGTGG	TTTCCATTTT	CGTGACGTTT	CTGTACACGG	CCTCAATCTG	CTGCATGTCC	420
	TCCTCGCCCA	GTAGCTCTAC	CAGCTGGTTC	CGCAGCTCTG	CCTCCACCGC	GTGGTTGTGG	480
	CGCGTTTCGC	GCTCTTCAGC	CTGCTGTGCC	TTCACTTGGT	CGGCAGAGGT	TTGGGTTTAG	540
	CAGGCATTTT	GAACCCATTG	TCCCAGCAAGT	ACACCACTGT	TCCATCCTTC	TGGATCTCAT	600
40	TGACCATGAA	GTCGGAATAG	CGCTGCTTGA	TCTGCCCCGT	AAACCCCTGGT	ACTCTGCTGA	660
	GAGGTACTCT	GTGATCCAAC	GTCGATTCCT	TGAGTCCATC	GGTCTCCGNT	TTGGCCCCCT	720

	NCCNCAAAAG	TTCTTGGCTG	CTCCNNANCC	GCTCTNTAAT	CCCCCGAAAN	TCTGTACNNT	780
45	TCNCNATTTT	CNNTNTNNCC	TACCTNAACC	CTTGTTNAAC	CTTCCACCCN	ANAANTCATA	840
	AATATTCCCC	NCC					

1250RP

	ATCTTAATTT	AAAATTTTAA	TTAACTATTT	ATAATTTAGA	AATATATAAT	CTAGAGATAT	60
	ATAATCTTAA	AATCATAGGT	AAAAATACAT	AAGATAGTAA	GAATAAAATT	AGTAAAAATA	120
5	ATAGAAAACC	ATAAGTTAAT	TGATTCATAA	AGAAAAATGG	AATTATTTGT	GGCATCTTAA	180
	TTTTTATTAT	TTAATTGATT	ATTATCTATT	TAACATAAAA	CATTTTAAAA	TGTTATAAAA	240
	TAAATAAGAA	ATTACTTATA	GAATATTTAT	TAAATAGTAT	TTAATTTAAT	TTTAATATTA	300
	AATATACCAT	TTTTATTAAAT	AAATAGATTA	TTAAGTTTAT	TAATATTAAG	TGATATATAA	360
	TTTAATTTAT	ATAAAATTATT	TAATTTACTT	CATTGATATA	TATAATTATT	AAATGTACCT	420
	TTCATAAATAT	TTATTTTAT	TAGTCTAGTA	ATATTCTAT	TTAATAGTCT	ACCTTTAAT	480
10	TGGATATTAC	TACCTACTAA	ATATTTACCT	AATAATATAT	TATTAAGAAT	ACTTAAATCT	540
	AATAATTTAT	TATCTAAAGT	ATATAAATTA	ATTAAATCCT	TTTTTATTAT	TATTTAATTA	600
	TTATTAATTA	GTAATTTATA	TTTATTATTT	TATTAACATA	ATTTTTTGAT	AATAATATAT	660
	CCATATTTAA	TGGTAATTTA	TTAATAATAT	CCTTTAATGA	TTTNATGATA	ACCNTATTAT	720
	TATGANATTA	GTTAATAGTG	ACCTTAATAT	CCCNATCCNA	ATATATNTAT	TTATTTNTAA	780
	NAACANANAA	CTTCTTATNN	CATATTTANT	TTNANTATTN	ACCNTTNCCN	NNNT	

1250UP

	GATCAAAATT	TCAACAATTT	CCATTTCAAT	TAGTACTACC	ATCACCATGA	CCAATTGTTA	60
	CATCATTTAG	TTTATTAGGT	TTACTATTAA	CTTTAGCTTT	TACTATACAT	GGTATTATTG	120
20	GTAATATTTA	TCCTTTATTA	TTATCTTTAT	TAGTAGTTT	ATTACTAATA	ACTTTATGAT	180
	TTAGAGATAT	TGTAGCTGAA	CTTACTTATT	TAGGTGATCA	TACTTTAGCT	GTAAGAAAAG	240
	GTATTTAACT	AGGTTTCCTA	TTATTTGTTG	TATCTGAAGT	ATTAATTTTT	GCTTCTTTAT	300
	TTTGAGCTTA	CTTCCATTCA	GCTATAAGTC	CTGATATCT	ATTAGGTAAT	GTTTGACCAC	360
	CAGTAGGTAT	TGAAGCAGTT	CAACCAACAG	AATTACCATT	ATTAAATACT	ATTATTTTAT	420
	TAGCATCAGG	TCTAACTAAT	ACATATAGTC	ATCATGGTTT	AATTGAAGGT	AATAGAAAAC	480
25	ATGCTTTATC	AGGTTTACTT	ATTACTTTCT	GATTAATTGT	TACATTTGTA	TTATGTCAAT	540
	ATATTGAATA	TAGTAATACA	TCATTTACAA	TTACAGATGG	TATTTATGGG	TCCAGTATTT	600
	TTGCTGGTAC	TGGTTACATT	CTTACNTATG	GTTAGTTTAC	TAATTAGGTA	GGTNCATTAT	660
	NGAANAACAA	GAAATTNCCT	TTAACNCCCN	CCCCTCGGTT	NGANATNNAA	CCNCACCTAT	720
	TATTACNNTT	TTTNAAAATA	NTGAANACCC	CANNATTGTT	NTAANGAAAG	GNNTAACGTN	780
	NACNACCCCN	TAGNNTTTNG	GTCCCCCCCC	NTGCTACCCC	ATTTTGNCCC	CCCCCACAAN	840
30	AACCCCC						

1251RP

	GATCAGGAGG	GTTTTGCGGT	GCTGCGCGAC	GGCGGGTTAG	AGGTAATGCT	CCTGCGAGAG	60
35	GATGACAAGA	CTGTGCTGT	GTACCGGGAA	GTGGCAGAA	AGTGTATACT	ACATAGTCAT	120
	AGTTATAATA	AACAAGCCGC	GGCGGGCTCT	AACGAAATGG	GGAGTTGCC	ATGCCACCGG	180
	GGCCGCCGGG	GCCGCCGGGG	CCGCCAAAGG	GCGCGTTCCA	GCGCGCACCG	GGGAGGAAAC	240
	CGGCGGGCCT	GCGCGGGTCC	GCGGGGTCCG	CGGGGTGCAA	CTGGCCGCCG	TAGGGCAGCG	300
	GGGCGGTGGG	CCGTTGTAGC	CGCGGATCGA	ATATCATGCC	GCCCTGCGGG	TTGGGCGCGG	360
	GAAAGGGGTC	AAACGGGTTT	GGCCGCTTCT	GGCCGCTTGG	ATACAGGTCT	CTGTGCGCGT	420
40	AGCCTGCAGG	GCTGCCAGGC	AGCGGCTGCG	CGGCGCCGGC	CGGGGGGGAG	AGAACCCTCGT	480
	ACTCGTCTTC	GAAGCCAGGC	ATGTCGTGCT	GCAGCCTGCG	TGCAGGAACC	TGCGCGCGGA	540
	TTGGCGGAGG	CGCGCTCCG	CTGAGGGCTG	CNTAATCACC	GGGCTGTGCT	TTTGCNGG	600
	GCTTCTCNTC	CGCCACCCAG	GGNAATTTCC	CTNGNAACT	TNCCGAACCT	CNCCCCCTTA	660
	AAACTGGCCN	CNCCCTTTTN	CCTNNCNGCT	NTCCTCCTGC	NNCCCCNTTT	CCCCCTCAAN	720
	ACCCNCCTAC	CCNTNTCTNT	NGNTTCNNNC	CCTACANCCT	TTCNNCCTNC	TCCCCCNCNC	780
45	ATNTCCTCNT	TNTATCNAA	AATTTCTNTN	CTTTTACCC	CCCC		

1251UP

	GACTGTTTCG	TGTTGAGGAA	GATAATCAAT	ACCGGAATCC	TCTGAGCTTT	GCTTCGGCCT	60
50	CCATTTCGCCT	ATTACGAAAT	TCGCGTGCTG	CTCCTAACGA	TGTTGTACCG	TTTATACAA	120
	CGCTTGTTGA	TCGCTTTTTA	GCAGAAGCCC	GTTTTTGCAC	CGACAGAGAT	GACAACCTTT	180
	GCTACTTCTC	CGATCCAGTA	TTGTTCAAGT	CTGTAGTCAT	CTTGCGATCG	TTGGTAAACA	240
	CATATACCCC	ATCGCAGTTG	GAGAAGATCG	ATACCACGTT	GCTTTTCGCT	TCATTTACCC	300
	CATTAATTTT	GCGCCTTTTA	TTGTAAAGGT	GCAGCACCAC	AGAAATACCT	GATAAAATCT	360

EP 0 866 129 A2

	TAGGCAATGG	CCATATTGGG	AAGTTTATAT	TACTAGCAG	ATGGTTGCTC	ATCCCGGCCT	420
	TGTGCTGTT	GTTCTAGGG	GCGCTGTTAC	TACCTTTAGT	CCTGTGTTAC	TCACAGCTTG	480
	TTACCGGCC	GGGCTTCTAT	GCAACTATTA	TATTTGCTTC	TAATATATAA	GTACTGACAT	540
	TTTCATACGC	GCCTAGCTAC	CGCTGCTTTG	TCTTCGGTGA	CTCTCTTCAG	AACAGCTTCT	600
5	TGGAATTATC	TTGTACTATC	AACCATGGAG	ACACTGTTAC	GCCACACCCC	GACCAAAAGG	660
	AGAACCGAAG	GACAATTTTG	ANCCCTCCCTT	TCCCCCGAAT	TANGGNTTNT	GAANATATNA	720
	ACCGGGACCG	GGTTCCCTNN	TCCCCCGGGT	ANTTNCCCNT	TAAATTTCGTN	TAAANTTANN	780
	AANGGTNTAT	GGGGNGAANG	AACCCCANCT	GACCCNAAAN	GTITNGNTGGG	GTTTAAACCTN	840
	CTNNNTNCGCC	GTNCCG					

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1252RP

	GATCTCCTAT	TAGTGGGTAG	CTAGCTAGTC	GGCCCCGGCTG	GCCGGGGCCCG	AACTGGTACC	60
5	GGGTGCGAGG	CCGAGTGACT	AACACTCCGG	GTTCTTCTGT	CTCTTGCCAT	GCCGAACATA	120
	ACCATGGCGA	CTTATATAAG	TTCTGGGCGGC	GTGCAGTCGT	ATGAGCCCGT	ACGAGCAAGA	180
	CGTCCAGCAG	TTTGCAGCGC	GGTAGTCGGG	GCGTTGCAGT	TGTGTATATA	TTGCCACCCT	240
	TGCGAACTTG	GACAGCCGTA	TGCTGGAGGC	GGTCAGTAGT	AAGCAGGAGC	CGGTGACTCA	300
	AAGTAGAAGT	CGGATTGTAA	AGGACAACAG	ACCAGTGGCG	GTACGGACAG	CAGCGGGCCA	360
	ACGTAGTAAT	AAAATATGAC	GAGAGATATA	CAGAACCCAC	TACTCTTCGA	GACGGCCACG	420
10	GAGGTAGCGA	ACAAGGTCGG	GGGCATCTAC	TCGGTGCTGA	AGTCGAAGGC	ACCGGTGACC	480
	TGCGCTCAGT	ACAAGGACCA	CTACCACTGT	ATTGGGCCCC	TGAATCCAGA	CTCGGTGCAG	540
	ATAGAAGTGG	AGGCGCTGGA	CTGGGAGGAT	GACAGCGTGT	TGGACCCGGG	AGATTGCTGC	600
	CCGGTAAAAA	GTCCCCTGCA	GCACATGCGG	AACCCCGCGT	TGAACTCCGT	ATATGCCGGT	660
	GATTNGTGAA	GGTNCCCCCG	GTTATCTTGT	TCAACCTGTT	CCCGTACCCC	CCTCCTCCAC	720
	AATTGAAGCC	ACCTGTGTAA	CACTGCGGAT	CCCCCCCCCT	CAAAANAACCA	NAAACAAAAC	780
15	CCATCCGTTA	GGTNCCCCNG	NCTGTCCCCG	AAATTAANGC	CGANCCNCNC	TCAN	

1252UP

	GATCTTTATC	GCAACNTTTT	GGTTCGTMT	CGAGTTACGG	GCCTGGCGGA	CCACACCGAA	60
20	AGCGCCAGCT	CCGAGTGTTT	TGCCGAATAT	GTAGTCGGCT	TTGTTTACAT	ACGAGGCTGG	120
	TTGACCTGTC	ACCTTGTTGA	AGAACTTCGT	CAACATGTTG	GCCTGAGACG	GAGGACGATC	180
	CTGGGGCTTC	GATGCGTCTT	CGTCGTGCTC	CCCTACACCC	TTACCGAGTT	TTCCGGTGGA	240
	ACTAGTGAAC	ACTGCCATAG	CCTCGCAGTT	AAAGTGATGT	GGCAATATTA	TATTGTAGTT	300
	TTGTTCTTTT	CTTGATTGTT	TTAGGCTGCC	GATAGCCCAC	GAGGTGAAGT	TTTGTACACT	360
	TCACACATCC	CAGCACTGCC	ATCAGGACAG	ATGTTGAAGA	TCAAATTTTCG	CAGCTACATG	420
25	CTGCATTGTG	GTGCTTGGGT	TAGCAGTAGC	GGCTAAGTTG	CAACTACATT	GTCCCCATTTC	480
	ACTCAGAAGT	ACCTCGGTTA	AGCTCACTAT	GCGCTTATTG	CCGAGCGAAG	CCGAGCATTTG	540
	TTACAGAAAT	GATGAGAAGA	GGCTATTGGT	ATGTTAACAT	AACGCCAGTA	GTGTTATATT	600
	TACCACTAAC	CATAGAAAAA	GTACAGAATA	TCCGTAGCCT	ACGAACTGAA	TGAATATNTT	660
	GCTTCCCCNC	CCCGNCCNTA	TACCAATGAA	TAATAAATTG	GATTTGCTAA	TATCTNCCCC	720
	ATATCCNGCC	GGGCCCCCGA	NNCCCTNCAA	CTTATTGGTN	CACNCNCCCN	TGCCNCCNCN	780
30	TTTTNTTTTN	TCNNGGAACC	CCCCCCCCCGT	CATCNTCGNN	TGNNTNAANA	TGANTACCCT	840
	CCCTTGNTCC	CCCNCCCT					

1253RP

	GATCCTAACC	AAGCTGATTG	ACTCCAACCT	TCCACTTGCC	ACATTTCGACA	AGCTGTTGCA	60
35	GAGCTCGACG	GCCGTGGGGG	GTGGTGCGTC	CATATTGGGA	TCAGATGGTG	GGTGTACAGA	120
	CACGGAGGCA	TTGGGACATG	ACCGAAAACG	CAAGAAGTTG	GAGCCCCGCT	TCCCGGCGCC	180
	TCCGCCGAGC	GTGGCACTCG	GCCCGCGCCA	TCGCCGATAT	AATTCTGAAT	TGGGCCCTCA	240
	CTACTTGCGC	GAGAGCAACG	CGCAGCCACG	CGTGATGCTC	CCGCAGGTGC	AGCAGCGCTG	300
40	GAACACAGCT	CCTCGACAAC	AACCCAGACA	ACAGCATAGA	CAACATGGGC	AGGCCGAGGA	360
	AACGGGTTCA	CCACCAATGG	CTCTTCGCTA	TCCCCCTCCA	ATGTTAATGA	ACAGCAATTA	420
	TACATTCCCT	GCCGGCCCCC	AGCAGCCGCT	CGGCCCGCAT	CCACAATCGC	GTGCCTCGAC	480
	GCAGCAATCT	GATGTCCCAG	CTACCCCTCC	CGGAATATCG	GCGTAGCACC	ATCGTCCCAA	540
	CTTCCCACAG	CCCCCACCGC	TGACTAGTCT	TTTGTCTAAA	CATCAGCCTC	ATCACTCGCA	600
	GCCTAATGAG	CTGCCTACCT	CCCATGCATA	TGTACAACAG	ATTTGCCTAC	TCCAATAGCC	660
45	CAGTTCTGAA	GTCTGCTTGC	TTACGTTGCG	CCCTCTCCCC	TTGGCCAATN	TATCCTTGTTN	720
	NNNAAAACCN	AACCCNNGTT	CCCTGTGCCC	NGAATTTCTA	CTTTTACCGT	CCGTTATTCC	780
	NTAAATCATA	ACCCGGTTCA	ANAAACCTTT	CCTTGACNAT	ATCNCAATTGN	GCNANCCCNT	840
	C						

1253UP

	GATCGACGAG	TTCGATGTTG	AGACGTTCAA	GAAGCTGTTT	GCGAACTGCA	TTGCAAGGA	60
50	TGTGGATGTG	CGCGAGGTTG	TCGCGGAGTA	CGACTGATA	GTGCCGTGTG	AGGAGCCGGG	120
	TGGGGTGCGG	CGCGCGGCGG	CCGGTGACGC	GGCGGAGGCG	GAAACGGAAC	CGTTTTCCCA	180
	GGAAGAGAGC	AAAGAGATTA	GGATCATTCT	GCCTCCAAAG	CCAATTGCCA	TTGAGTTTGT	240
55	AAAGAATGTG	TGGGAGAACT	GCTGTGTGCT	GTACCGTTTC	TATCACCGCC	CGACTTTTCAT	300

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	CAGGAAGCTG	GACGACCTGT	ATGAGACAGA	CCCGCGTGAG	TACACGCACG	AGCAGCTACG	360
	CTTCTTGCCG	TTGTGCTACG	CTGTCAATGGC	AGTGGGTGCG	CTGTTCTCTA	GCTCCATGCT	420
	CCCTGGTCCG	GGAAGCGAAG	ATGCGGGCTC	TGCAGGCAGA	ATAACAGCGG	CTACATTGGC	480
5	GGATACGGAC	ACACGGCAGG	CTTATCTGCA	CGACGAGGGC	TACCGGTACT	ATGTGGCTGC	540
	GAAAAAGCTA	GTGATCTCAC	GAACGCCCGT	GACACCGAGG	CGAATCAAAC	CTTGTTCCCG	600
	TTTGTGTCT	CCCAAGTTCC	GCGCGGTGNC	CCCGGCATCC	GTTTTTCTGC	CCNGCTATNA	660
	ATTCCNCCCN	CCTNNAGANT	CCACCCACCC	CCCCCGGANA	ANTAAAAAAA	TTTCCCCCCC	720
	CAACCGGAAN	TCCCNCCCCG	NTTTACCCCC	CTTANAAAANG	AGGTTTTTTTA	AACAAAACGG	780
	GGNGCCCCNC	NCCCCCGGNN	CNNNACATCC	CCCCCCTAAA	TCGGAANAAT	NNCCGAAACC	840
	GC						
10							
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1254RP

	GATCGGCCAC	ATTGTCCCTG	AGGCCTATGA	AGGCGGCCCA	ATTGCGCTCG	TGCAAGACGG	60
5	TGACGACATT	GTCATCGACG	CCGAGAACAA	TGCCATCAAC	CTCCTTGTCG	CAAAAGAAGA	120
	AATTGAGTCG	CGCCGGGCTC	GCTGGACCCA	GCCGGCTCCA	CGCTACAAGA	GGGGCAGGCT	180
	CGCCACCTAT	TCTAAGTTAG	TCTCCAACGC	CTCCAAGGGT	TGTGTCTTGG	ACAGCGACGA	240
	CTAGCACCTC	GACGCAAGTC	ACTATTTATT	AACAAGATTA	TGTATATAAG	CACCCCGCCA	300
	TGTCCATTGA	ATGGACCGCA	TATGTAACAA	AAATCGAGGA	TGCTTCCCTA	TCGTCTACAA	360
	ATCTCAGGAT	GTTGAGTACC	TTTCAGGTGT	CTGACTGAAA	TAAATGTTGA	ACTTTGATAG	420
10	TACTTTTATG	TTTGAAAAAT	TTTAAAAATT	TATTGTATGG	CTGTCAACAC	GAGTACTCAT	480
	CTTCACCCGA	CATTACGGGT	ACCTGAAGAG	CTTATCTATC	GATAACATGG	CGACTCAGGA	540
	GGCGGTATTT	ATCGGGCGCA	ATAGGCAGAC	GAAGGTTCGG	GACTTCTATT	TGCCGACCAA	600
	GACTGTCCAT	TCGACTGGAA	AGTGCATCCT	CTATGGAATC	CGTTGGACGA	ACNCATGCNG	660
	GNGTTTNGC	CATTGAAGGC	CNCAACCCGA	GNTACTCGGN	AATTTATGGG	GCNAAAAAAT	720
	TTTGGTCACN	CTCNCGAAG	CACAATNCTT	CGGCAAGNAA	NAAAAANGGA	ATTGNCCNAT	780
15	TTGGAGCCCN	AAACCTNTAC	NTNGCNTGGN	GNNGGGTANC	TCCNNTTCN	ANGTCN	

1254UP

	GATCTCTGGT	ACCCCAGCAG	CCCTGGCGGG	GACGTGGCAT	TGGTGACTTC	TCCCCAGGT	60
20	AACCGGGTGT	GCTCTCAGCC	CCTTCCCCAC	ATTGAAGTTA	AGCTTGTTAG	CGGTACTCCG	120
	CTTCATTTTC	TGTGCCCGGT	CGACCGGTAG	CGTCATAGTC	CCGCCGTGTG	GCCGACCGCG	180
	GGCCGCCATC	ACAGGTATCT	ACAGTTCAAC	GGCCGCGTCG	CGATCCCAAG	CGCAGTCTGG	240
	AATCTCGAAC	GGTGCTACAA	AGAACGGATG	CGTGGCAGAT	CGAAGCTATC	GAGAAGGTGG	300
	TGGGGGAATT	GAGTGAAAGT	ACACGAAGGC	AGGGTGTGAG	ATCTCGTACC	TCTCGCATAC	360
	AGTACGAGAA	GGAGTCGGCG	ACGGTGTTCA	GAAATCAGCG	CAGTGTCCAG	TGCGGGGAAG	420
25	CGTGCAAAACG	GAACCTCGGAA	ACAATCCGAC	GGACCTACTG	CCAGGTCCAA	GCCCTTTCCA	480
	CGGTGTCACA	GCTAAGATGG	TGACTGGCCA	ATAATTTGTC	ATGCTGGTAT	TCGTGTGTGCG	540
	ACGATTATCT	ATTTCGGTTCA	GCCGTTTCATA	TTTAGGTGCG	CTGCAAAACGT	GGTGACATCA	600
	CGATTGCAC	GTATATATGA	TGGAGTAATT	CGCATACACT	GAAAAATCNTA	ATAATCAATA	660
	ACCCATGCCN	CNACTCGNCA	ACTTCNCCNC	TTGNGCTCCN	GGTGAAATCC	CCTTCACTAN	720
	TTTTTTTCAT	TGCCCATTTN	ACCGAACTTT	ACNAATNATG	CAATGANAAC	CNCCCCCTCC	780
30	AAACCTANAT	CCTTTTNTTN	NGGGTCCCN	ACNGTTNCCN	TTCCNGNCNA	NCCCNCTTTN	840
	ATTCCAANAC						

1255RP

35	GATCGTGTG	TCAGGGTGCA	TTGCAGTGGG	CCTGAAGACG	GTGGGGACTG	ATCGGCGGCC	60
	GAAGAAGCTG	TCGCAGCTAC	AGGCGATTGC	GGCTGTGGGT	CAGGGCCGGC	TTATTGCGCG	120
	GTGGGACTCC	CTCTTCAGAC	CGTTCAACGA	GAAGATTGCG	CAGATTTTGT	TGACACGGAA	180
	CGACATAGTT	GACTGGTCGC	AGTATAAGAA	CGCGCAGAAT	ACGTTCCACG	AACTGCTGGC	240
	GATGGGCGTG	ACGCCGATTG	TGAACGAGAA	CGACACGCTC	TCAATCAGCG	GAGTGAAGTT	300
40	TGGGGACAAC	GACACGCTGA	GTGCGATCAC	AGCGGGGCTG	ATCGGCGCAG	ACTACCTGTT	360
	CCTGATGACG	GACGTGGACT	GCCTATACAC	CGACAACCCG	CGGACGAACC	CGGATGCAAA	420
	GCCGATCTTG	GTGGTGCCGG	ATCTGTCAAC	GGGACTGCCC	GGCGTGAACA	CCTCTAGTGG	480
	GTCCGGTTCA	GGTGTGGGCA	CCGGCGGCAT	GGCGACGAAG	ATCCTTGCTG	CAGACCTGGC	540
	AACGAACGCC	GGGTGCATAC	GATTATTATG	AAGAGTGAGC	GGCCGTCGAC	ATGGTGCGGA	600
	TCGTGGAGTT	CATGGAATGG	CGCAGCAGTG	CAC'TGCAGTT	TC'TGCTGACG	CGAGACTTGC	660
45	AGACGGACGA	GCTGAATTTG	TTGCAGAGCA	CGGCGTCCCA	CTACACACGC	NCTTCNTGCA	720
	ACTTTGCACC	TCCTGAACNA	CNGATTCTNTG	ATCCCNCGTC	TGTGACNCGG	NCGTATCTAA	780
	CAGGGGCTNA	GGCCCCCCCCA	AACAAC'TGNT	CCCACGTTNT	CCGTACG		

1256RP

50	GATCTAATGG	CATTCTCCCT	ACCAAATGGG	CCCAATTGTA	TATTGCCGAT	CTTCCTACAG	60
	GGNACTGGTT	TACGGATCCA	GCGAAGATCG	GGAGAGTTCA	GCTCTTGTTA	TTGCCGACAT	120
	TGTGTCGAAA	ACACCAGCTG	CAAACTTGAG	GCCATATGTC	ACTGTCATCA	CAGGTCCACT	180
	TATCCGTGTT	GTTGGCGAAA	GGTCTAGCAG	TGATATTAAG	GCTGCTATCC	TATATGCCCT	240
55	AAATGTTCTC	TTTTCGAAGG	TTCCACAATT	CCTGCGGCCA	TTCATACCTC	AACTACAGAG	300
	AACATTTGTT	AAATCTCTTT	CCGACTCAAC	CAATGAGACC	TTAAGATTGC	GGGCCGCGAA	360

	GGCACTAGGT	ACTTTGATAC	AATATCAACC	AAGAATTGAC	CCTCTGGTGG	TGGAGCTAGT	420
	AACAGGCGCT	CAGCAGGCCA	CTGAAAGGGG	AGTAAGGACG	GCTATCTTGA	AGGCATTGTT	480
	GGAAGTTGTC	TCCAAAGCTG	GCAGCAAGAT	AAGCGAAGCT	TCCAAAGCTA	ACATCATTAG	540
5	ACTTGTGGAG	CAAGAGATGG	CATCCACAGA	CAGCAAGTTT	GCAGTCGCTT	ACGCCAAGCT	600
	TCTAGGTGCA	CTTCTGAAA	TCATGTCTCC	GGAGGAGGCG	CAGACCATAC	TTCACGAAAA	660
	GTGCTTGATC	CAATTTTGAA	GANGCACNGT	AAATTGCCGT	CNGACCCAC	TCTATCCTNC	720
	TACCCCTGTA	CNTTCTCCCG	CCATNCACCN	ATNTTGACTN	TINGTGGTGC	ACGGATCNEN	780
	ATCCTTCCNN	CACACGTTTN	CCCNTNGNAT	TCCCCCNAA	NGAAAGTNAN	CCCCC	
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1256UP

	GATCAACTGG	TCGGGCGGGC	TGCACCACGC	CAAGAAGAGC	AATCCTTCGG	GGTTCTGTTA	60
	CGTGAACGAC	ATTGTTCTGG	CGATTCTGAA	TCTGCTGCGC	TACCACCCAC	GCGTTCTGTA	120
5	CATTGACATT	GATCTGCACC	ACGGAGACGG	TGTCCAAGAA	GCATTCTACA	CTACTGACCG	180
	CGTGTTCACG	GTCTCGTTCC	ACAAGTACAA	TGGTGAGTTT	TTTCCGGGAA	CGGGGGATT	240
	GGATGAGATC	GGATGCTCGC	GCGGCAAGCA	CTTTTCGCTG	AATGTGCCGC	TCAATGACGG	300
	CATCGATGAT	GATTTCGTACA	TCAACTTATT	TAAGAGCATC	ATAGACCCGC	TAGTTACATC	360
	ATACAAGCCA	ACAGTAATTA	TTCAGCAATG	TGGAGCAGAC	TCCTTGGGGC	ATGACAGACT	420
	GGGGTGTTTC	AATCTAAATA	TCAGAGCCCA	CGGCGAGTGC	GTCAATTTGT	GAAGTCGTTT	480
10	GGGATACCTA	TGCTATGTGT	CGGTGGTGGG	GGTTACACCC	CCAGGAATGT	GTCCGCGCTA	540
	TGGACGTACG	AGACAGGCAT	CCTTAATGAT	GTGCTCTTAC	CTTCAGATAT	CCCAGAAGAT	600
	ATTCCGTTCC	GCGAATGGTT	CGGTCCAGAC	TATCTCTGCA	CCCGGTCCCT	GGATGANNTN	660
	TCCAAAATAA	ACNCCCAAA	TACTGGANAA	NATACGTNCG	GNTTTAAAN	NTAAATNTTG	720
	CNCGGGCCAT	TTTGNCTNGA	NNCGAATATC	CTCCAGATTT	CCGTTTAAAC	AAAAAAAAT	780
15	GATCGGAANA	ACCAAAANAT	NCCTTGNTAA	CANTNAAGAA	NTTTGCCGNN	ACTTNTTANT	840
	C						

1257RP

	GATCACTGGT	GTCACCAAGG	GCTACAAGTA	CAAGATGAGA	TATGTGTACG	CGCATTTTCC	60
20	CATCAACGTC	AACGTTGTCG	AGAAGGACGG	CGAGAAGTTC	ATTGAGATCA	GAACTACTTT	120
	GGGTGACAAG	AGAGTTAGAG	CTGTGCCTGT	CAGAGAGGGC	GTCAGCGTCG	AGTTCTCCAC	180
	CAACCAGAAG	GACGAGATTG	TTTTGTCCGG	TACCTCCATC	GAAAACGTTT	CTCAGAACCG	240
	TGCTGACATC	CAGCAAAATCT	GCCGTGCCAG	AAACAAGGAT	ATCAGAAAAGT	TCCTGGACCG	300
	TATCTACGTT	TCTGAGAAAG	GTGTCAATTG	CGAGGAAGCC	TAAGTGCCTT	ACTGACCGTA	360
25	TCCTGATAAA	TAATATGAGT	ATTATGTAAT	CAAAGAACTC	ACTGCTTTTT	ATTGGTGGTG	420
	TTTTCGTCAA	ACGCTCTTAT	TAGCGCCGGG	GTTAGAGTGT	GGGAATACTG	GCGTTATATG	480
	CTTTAGAAAGT	TATGTTAAAGT	AAATTTAATG	TCCTATCAGG	GCCACAGCCT	TAGCAACTAG	540
	GTGCAGGTAC	TCCTTTAGCT	TGCCACTGTT	CTGGAACAGA	AGATATATTT	TATCTGTCTC	600
	GTGCGCACCA	TCGTAGACAG	GTTCAACCGT	TCCTTGCCAG	AACGATGGAA	CGCCAGCTTT	660
	CCGCGGTGGA	AGTTATAGGA	ATTATGGATT	CCAATGACAG	TTGGTGTGTT	AACNANCCTG	720
30	ATTGTCCAN	TTTCCCGTCT	CNGAAGCTNC	ANTGNTTCN	TGACCNANCA	AACCCGGGAN	780
	ACCCCTAGGG	CTGNNAGGCT	TGAATGCNTT	AAAANANTTT	CNTTGANAAA	NCATTGNTAA	840
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1257UP

35	GATCGGGCCG	CTCACACACT	CAGGTACCTC	AAAGGAATAC	GAGTTTGTGCG	CACGCTTCCC	60
	GTGTCCAGAT	GCACAGAAAA	TCGATATGTA	CATCAAGGAG	CCGCAAAACA	AGTACCTCTT	120
	TTCGGGAACA	GAGTACACTT	TCCAAATCAT	CTGCAGCCCT	GCAGACGGCC	TCACTCACGA	180
	TCCATACGAC	GCGCAAGCCG	CTGCGCCAAA	TGTGATAGTC	GTCCAGTCCC	CATCCGGCAA	240
	GATCTACCGT	CTGAAAAAGG	CGGAATCCGA	TGTCGAATTT	GGCGTATGCG	AAGCTAGGCT	300
40	AAAAGTGCAC	GAGCCAGGCG	TCTGGCTGGC	CCTAATTACC	TCTGAGGCAG	GTGCTGGTTG	360
	GTGCACTTTC	GCGAAGTGGA	TCTGTGTTTA	ACACCTAGAT	GCTACACAGT	CATCCACCCC	420
	ACGAAATTAA	TAGATAGTAC	GGGTACATAC	AAGCCCTATA	GTTTCTTAAT	ACACTTGCCC	480
	TATATTGAAT	ATGTCTACGA	AGTATATGGG	CGAGGCACCT	TCAAAATCGG	TGAAAAAANA	540
	TGCACCACTT	CGAAATCCAT	GTTTTATGAG	CTTAAACAAC	AGTGGTTGTT	GAAGAACAAT	600
45	ACCCTGCCAA	GGAAATGTCA	GGTACTCGAA	CCAGCTCTCA	ACAGATTCTT	AAAGATTGCC	660
	AGTGTGTGTA	CCGAATCCAC	GTTTCGCTGAA	TGCTGGGACC	GACATCAGAC	CCTTGCAATTG	720
	GTACAAAATC	AGTCTATACG	GNGAGCGCCT	GTNTGCCCN	AAAANAAANA	CCACGGAAGG	780
	ACNCATTGTC	ACTTGAACNG	AGNCAATGTG	TNCNGTGACG	CGGNTNTTTC	GNTTCAAGCC	840
	CCAAGGACAA	NAACGC					

1258RP

50	GATCCAACCT	TCTACTAGGG	TATTTTTCCC	TACCTCAGCC	TGCAATTCCA	TGCCATCGCT	60
	AACCAAGATA	ATATTCTCCT	CCAGTAGATC	CATATTCTCT	CCCGACTTCG	CACTAATCGG	120
	GATGACTGGC	ACGTTTCCAC	CCAGATCTTC	AGCATGTATT	TCATGCTGTA	GCAAAATCATT	180
55	CATTATTTTG	TTGATCACAG	TTTCCTTTTC	TTTTGCCGAC	CGGAGTTTGT	CCACCTTGGT	240

TATGGCGACA	ATCAGCTCAT	TCCCTGATTT	TTTGACATGC	TTAATCGCTT	CAATGGTCTG	300
GGGTTTTAATT	GAGTCTTCGG	CAGATACTAC	CAAGACAACG	ATATCGGTAA	TATTCGCGCC	360
CCGTTCCCTC	ATCTTCAAAA	ATGCTTCGTG	CCCGGGCGTA	TCCAAAAACG	TGATCTTCCG	420
CTTCGAAACA	GGTGTGACAA	CCTGGAACGC	ACCAATGTGT	TGTGTAATGC	CACCAAATC	480
CTGCGAAACG	ATGCTCGACT	TCCGCAGATA	GTCCAAATATG	GTGGTTTTGC	CGTGATCAAC	540
GTGACCCATA	ATCGTCACAA	CAGGTGGCCG	GTCCCTTCAGG	GCCTTCGGGT	CTGCAGGCTG	600
CTTCAATTCA	TCGTAAACGT	TCTCCGGAGT	GACAAATCCC	TGCCGGAGGG	CAGTTGGTAG	660
CTATCTCCTC	CCAATATAGC	TCGATGTAGT	CTCCTGGAAA	TATGTAGTCC	GCCTGGCTTT	720
TCAA						

pAG1258up

1 GATCCTGTTT ACAACTAAGT TCGCATCCCT ACCAGGGGAA AATATGAAAT
 51 ACCAAGTGTT GTATTCCGAA CGCTAGAATT CTTGTACAAA AACCGCGGCA
 101 TTCAGGAAGA AGGTATATTT AGGTAAAGCG GATCCAGTTC TCTCATAAAA
 151 TCTTTGCAGG AGCAATTTGA CAAAGAATAT GACGTGGATT TGTGCAATTA
 201 CAACGATAAA GTTTCTGTCA CACCAGGAAA CGAAAATCAG GGCGGTCTCT
 251 ACGTCGATGT GAATACCGTT TCAGGTTTAT TAAACTATA CCTAAGAAAG
 301 CTTCTCATA TGATCTTTGG GGATGCTGCA TATATGGATT TTAAGAGAAT
 351 CGTGGAAGA AACGGAGATG ATAGCAAAT AATAGCACTC GAGTTCAGGG
 401 CATTGGTTAA TTCCGGACGA ATTGCCAAAG AATATGTCGC CTTAATGTAT
 451 GCATTGTTTCG AGTTATTGGT GAAGATCACC GAGAACAGCA AATATAACAA
 501 GATGAATCTG CGGAATTTGT GTATCGTATT TTCGCCAACG TTGAACATAC
 551 CCGTGAATAT ACTACATCCG TTTATCACTG ACTTTGGCTG TATATTCCAA
 601 GATAAGGCGC CGATGGAGAA CGGACACGGT CAACATACAC ATCCCGCAAT
 651 TTAGTTCATA CTAAGTAAAA TACTATTAAC TTAGAATATG TGATAAGTGT
 701 TTTAATTACN TAACTTGGTA TTAGTCCNAT TGTNTAATAA TTGAATATGA
 751 ATGCNTTATT NTCTCTNANT CAATNTGTCA CGATTGGATT TACACNGCG
 801 TCTGTAANGA CNTCTAGCTT GGTCATCCCA NTTCTCANTT NCTCCCGCTT
 851 NCA

1259RP

	GATCACACGA	ATATTGCGGG	AGTATTTCTC	CATCGTTTCG	CGCAACGCGG	CCTGCGCATC	60
5	GCGCGTGAGC	GATTGCGGCCT	CGTTGATGAT	CACACTCTTG	TACCTCCGCG	CTAGCCCCTC	120
	CGATCCGCTC	TGGAAATCCA	CCTGCTCCAT	CTGCGCAATC	TCCTTCAACA	ACTCCTGAAT	180
	CACGATCCGG	TCATTTGTGCC	CCATGTCGCT	CGGCGTGATC	TCGATGTGGT	ATGGGCTGCT	240
	GACGACGTTG	AGCTCGAGCT	TCTTGTTAGA	TGGCGTAACA	AATTGCGCGA	CATCAATCTT	300
	TAATTTGTAT	ACACCTGCTC	CAAAGATACT	TGCAAGGAGC	CCCATGCACC	GTGTCTTCTT	360
	CCCACCTCCA	TTGGGCCCGT	AAAGTAAAAA	ATGCGGCAGG	TCCTTCCGAG	AACTGCTAA	420
10	AGCCTCGAGC	TGCTTGGTAA	GCGATGCCGT	ATGTGAAAGG	CTGGTCAACG	ACTTCGGTCT	480
	ATGCTTGTCA	ACCCAAAGTG	ACATATTCTT	GTGTATCCTG	AGATGGGCTT	TTGTGTGTTG	540
	TAGGGAAGGT	GAGCAATTCA	GTCGCAATTA	AATTCATTTA	GATTCCGCTT	TTAGCACAAA	600
	ACGATATGCC	CTCAGTAAGG	CCAGAATACA	TACACGTACT	TCGCCTACTA	CTTTTGACAG	660
	AAGTAAAGCT	CTACCGAGAT	CGCTCGAGGA	GATGGCAATG	ATATAACCCN	CAATTACTCT	720
	GATGCNAAAA	ATGTTGCACC	CNTGCCTTTT	TANTTCNGTC	GACAACTANN	AGAGCCTNTA	780
15	TCNAGTCCAA	ATTTTNCCAA	ANCTGGGAAA	ACCTTNTNCC	GTGGTNTATN	AACACA	

1259UP

	GATCACCCCC	CAAATCAGCA	ATAACTCGAA	AACCTGTGCC	AGTACCTTTC	AACGCGCATG	60
20	AACCTAACGG	CGCGCAGCGG	TCATGGGTAC	TCGACTGCCT	TTGTATCCCT	CACACTGCGC	120
	CTCTTCGTGT	GCCGCACGTG	CTTGTTGATG	GTAGCGGCGC	GGCCCGGTGG	ATCTAAGCGC	180
	ACGTCTCTTT	GTACGTGGGT	CTCACGTGCA	CATCGTCATC	CATCCGCTTG	CGAATGAGTA	240
	GATCAGCACG	GAGACCATGC	TAGGCAGGGC	CGTTGGGCGA	GGTGAAAAGG	TTGCAGCATT	300
	GAGGTGGAGC	AGCAAGATGA	CATCACAGGA	TAGTAGTCGG	AAGAAAGAGC	TATGTGCAGC	360
	GTACAGCGTA	GTGGATGAGC	GGGTTTCGCG	CAGCATGGAA	GAATGCGGAC	GTAGAAGGTC	420
25	GGAGGTTCTA	TTGCTTGCCG	TTTCTAAACT	GAACCTGCG	TCGGATGTGG	CGATACTGTA	480
	CGAAGAAATG	GGGCTGCGGC	ACTTTGGAGA	GAACACGTG	CAGGAGCTGG	TGGGGAAGGC	540
	AGCAGAGCTG	CCGGGCGATA	TCCAGTGCCA	CTTTATCGGG	GCGCTGCAGA	GTAACAAGTG	600
	CAAGGACCTG	GCGAAGGTAG	TGAAGTGCAT	GCGGTGGAGA	CCATCGACTC	GCTAAGAAGG	660
	CGCGGAAGCT	GAGGAGGCCG	TGCGAAGTTC	CAGCCGAGCC	CCCGCATCTG	TGTTACATTG	720
30	AGTGAACNCT	CTGGCAACNC	AAAGNNGTTN	CNCGATGAGC	NACNGTGAC	TGTGATTCTT	780
	CTNCCAAAAC	AAACCTTCCC	TGCCCCGACG	TAAATGGTCC	TGGACCTCC	CCGCGAAGGG	840
	AACCGATCCC	C					

1260RP

35	GATCCTCAGA	GGGCCCCGAA	GAAGCTTCGG	CCGAGACAGT	AACGATGTTT	GGCGAGGTTG	60
	TGCTGTATCA	CAGTTGAGCT	CTAGGTTGCA	CTTTCCGAAA	GAGCGCTACC	GTAGCTGCAT	120
	GAAAAAAAG	TAAGGCTCAT	CAGTTTATGC	AGAGGCAAGA	ATAAGTTTGG	TAGAGCCTTA	180
	CTTCACAAGC	TGCGCTCTAG	CGAGCCATAT	TATTCTATGG	CCGGCAAGAG	AAGACCGAAG	240
	AAGGCCAGAG	CTCCATATCG	AAAGTACGTG	GCGGGTCAAG	GGTTTGTGCA	TACCTACGGG	300
40	GTTTCCAGTA	CTGAGAGTTC	AGCACACGAT	GAAAGCGGTT	TGTTCCCCGC	AGACAGTGGG	360
	GTGCAGGTAT	CTGACGATGA	TATTGCGAGA	CGACTTGTGG	ATATGACACT	TTCCGCAAGC	420
	GCAGCGTTTG	CCGGTGGAGC	GGCACCCATA	CCGTATCCCG	GACACTCAAT	GGTGCTTCCC	480
	TGGGAGCTGC	AGTTTTTGGT	TCTGTCCAAA	TGCAAAACTA	TTGAAACACA	CTTCATGCAA	540
	GTGTGCAGGC	GGTGGTATAT	CATGTGTCTG	CCATTGATCT	ACCGAGCACC	AAGGCTCTCC	600
45	AGCAAGACTT	CTACAAGTTT	GTGGAGACAC	TGGTGGCAGC	CCGTAAACAG	AATTACCGGC	660
	AATATTCTCT	GATCTCGACC	GTCCATGAAT	ACCNNANC GC	AAACCTTTTC	CAAGGTCCTC	720
	CCGTTGCTCC	CACCTTGGAC	ATTCCGGCCC	CAAACACTCG	TATCCCCNTG	AATCTTACGG	780
	CNNCCNNTT	GCAACCGATT	TGTCTNTTCC	CAACGTTANC	GAACNCNTTG	AG	

1260UP

50	GATCGACCGG	CCGCCCCAGC	CGGTGCCGTC	GGTGAAGTCG	CCGCCCTGGA	TCATGAAGTT	60
	GGGGATGACG	CGGTGGAACG	TGGAGTTGAT	GTAGCCCGCG	GAGGCGTCCT	GGCTCTTTGC	120
	GAGCGTGACG	AAGTTGGGCA	CGGTGCGCGG	AGCGACGTCT	CCGAACAGCC	CGAGCACGAC	180
	ACGGCCCACT	GGCTTGTCTG	CGGTCTGCAG	ATCGAAGAAG	ACACGGTGTG	TGACGGTGGG	240
55	GTCTGCGAGC	GCGAACCGCG	AGAGCAGCGC	CTGTGCGAGA	ACGAAGAGGA	CCTGCATTGG	300
	GGGTGGCTGC	GGGAGGCGCG	GGACGCCGCG	GGAAAACGCC	CGCTTTTATA	CGCGAAAAAG	360

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	CTGCTTCGGC	TACGTAGCTA	GAGATACAGA	GGCGTGGACT	TGAGGCTCTG	CAGCATCAGG	420
	CGGTCCATCA	TCTCGGGCGT	CAGCACGTCC	GAGTAGCCCG	CGGTGCGCGC	GTCCAGCGCC	480
	GCGGTCAGCG	CTGGCGCAGT	GGCGCTAGAC	GCGGTGCTGC	CACTGGCCGG	CTGCACGGAG	540
5	TTCTGCTCCA	CGGGCAGGAA	GGCCGCGCCC	TGGCCAGGCT	GGAAGCGCGC	CAGACGCTGA	600
	TCGCGCCCGAG	CGCGGCCGAC	AGGTGGAAGC	CGGTGACACAG	CAGGCCGTTT	TGCACCACGC	660
	TGTACGCCGT	GGCGCCTGTA	CCTTCCCCNA	ANANGTNTAT	CTTGACGCAT	CACCGTTCCG	720
	CCCCCGCTGC	TTCCGAACCA	AATCCGTCCC	NCTTAACCAC	CNTTTCANGC	CNTCACTTGC	780
	ACNCTGNCCA	CACNCTTCNC	GGTTACGTCC	CAATGCCGTC	TCCCCNGGGC	GCTTAGCNCG	840
	GCTCGT						
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1261RP

	GATCATAAAC	GAAGAAATTC	TAATTAACAA	TTTGTCTTGC	ATGTACTTCC	TCAGTGAGAA	60
	ATAGCGATAT	AATCATTAGA	AAGCTTCCCC	GAGCACTTTA	GCAGCACCGC	ATGCCAGCAT	120
5	AACCCCTGG	ACTCAGGGCA	GTATGCCGGC	TGGCACCTCG	GCACCTCATC	GCAGGCGAGA	180
	CAGTCCACCA	CTGCGAGCAC	CGTAGTATTT	ATACTTTTCC	AGGTTGAAAA	ATTTTCGACC	240
	GCCCCACGCC	GCAGAGGGCT	GGACGCGCAT	TAGGGCTCAC	AGCGGTGAC	TGCCACTGCT	300
	GCCCCAACAG	CGCCGCGCAT	GTAACGTGAA	ATGATATATT	ATACCTTCTG	ACTACAATGT	360
	GAAATATACA	AAGGTGGCTC	ATAGGCGCAT	TGCATTTATT	CAGACGCAGT	AGCTCTGGTG	420
	TAGATAGCCT	GCTTGGAGTG	CTTGGAGATT	GGCTTGATGA	TGCCCTCGGT	CTCCAAGTGT	480
10	CTCAAAGCAA	CTCTGGCCAT	GGAACCGCCG	ATCTTCAATC	TGTCGACCAA	CACGGACACA	540
	GAGACGTATC	TGTAGGTTGG	GACCTCCTTT	AGGATTCTGT	CAAGCTTGTC	CTGGTCCAAG	600
	ATGACGGCGT	GCTGGGCTTT	GTCCTTGTGG	GACTTCTTGG	ACCACTTCTC	TTGGACTTCT	660
	TACCACCGGC	CATGGCGCGC	GCGCCTTCTG	GGCCTTAAAN	ATNTTGTMTT	TGGTGCAAT	720
	ACNGTGTGCC	CNTATACTGT	CCGCACCACT	GGCNTCTCTG	CGNAGGGTGG	TGAGCTTCCG	780
	TACTCCNCCC	CCTACCCNCC	CCCCCNNGNT	TGTCCNTTTC	NNCNNNNCTA	ANTCT	

1261UP

	GATCTGCAAC	AACACCATTC	CATCGCGAAG	TCTTTCCAAT	TTCTGTTCTG	GAATATTATG	60
20	AGGAAGTTTG	AGAACGATAT	TGGGAGCGAT	GATGAGGAAG	ATCCCTTCCA	GATCAACGAT	120
	TTGGACGAGG	AGAAGACCTT	GCGCATGCTT	TCTAACCAAG	CCTGTTTCTT	CGGCTACCTG	180
	ATGCCCGAAG	GTCAGGTAAA	GTTAGATGTT	TTAAAACATG	TATCCATTAT	GGGGTTGAAC	240
	TCTGACGGGA	GACTTTTCCT	AGAGAATCTT	CTATTTCACT	TTCTGTTGGC	CTCAGCCAAA	300
	AAAGCAGAAA	CTAAAAGAA	GGTGGGGAAT	ATCAAGGAAT	GGTCTTACAG	AGATGACTTG	360
	TTGCAGGGCG	CCCTGTGCGA	TGGGATCCAG	GCCGAAAATA	AAAAGATAAT	CTGCAATCG	420
25	CTCAGGATGT	TTATGAGGAA	TTTATAGATC	ACGAACTATA	TTCTGTTGTC	GCCTGGCTCG	480
	AAGGAGTATC	AACGTGACAT	GAGAAGGTTG	GACTGGGCCG	TTAAGCGTTT	TTTGGAACCT	540
	ATAGATGAAG	AACGTGATAG	TGCAGATTGT	GAAGAGCTTC	TTGTCACTAG	TCTGAATGCA	600
	TATTACGTGT	AACATTGAAC	ATACGTACTC	TATATTAAAG	TGGTGAAAGT	GATGAGAGTA	660
	TGACGTCCNT	GCTTTTATTG	CATACCACTT	NTGAAATTACA	GTTATTCGGT	GAATGACNAC	720
	AAACANGTTC	CATTACTTAC	TTGTTGACNT	CGCCNCGACC	ACCACCCGCG	CCACACCTTT	780
30	GTTTACCTTA	TAAAAATCTC	CACNTCCGNC	GTATANAGCC	TNAANAATTC	NTTCGCTCAT	840
	GCGGTTTTGA	CN					

1262RP

35	GATCTTTGCA	CACGCTGGTA	ATGTTTCCCA	CTAACTGGTA	TTTTTCCTTG	TCTAGATAGT	60
	CTGCCGTAA	GACTCCCGAC	GTGATCGGCC	GGGCACGGAC	GCCCATCTGC	TCCAAGGCCG	120
	TCACAAGTTT	CAGGTTCTGT	TCCAGAAAGC	ACTCGCGAAC	TACTGTCTATG	GTCACAGGAT	180
	CAGTTACGCG	AATTCCTTCT	ATATATGAAG	GCTCGATACC	CTGAGCCTCC	AATTTGTTAT	240
	TCACCTGCGG	ACCCGTGCCA	TGCAGCACAA	TCCGATAGAG	CCCCACATGG	TACAGGAACG	300
	CCAGGCATGA	AGCCAGTTCC	GGCAAGTTGT	CGCTGATGAT	GGCACCTCCA	ACTTTGATAA	360
40	CCGCGAATTG	CTGCTCCGAG	ACGGAAGTAA	AGTACTTCAG	GTACTGTTCT	ACTTCACGCT	420
	TAGAGCCAAT	ACTGTTGAGA	AGCTGGATCA	CGGTGGACCG	TGTCTGCAGA	GACCCAACGC	480
	CCTCGTTGTT	CCCGGTTCTT	GCATAGTTCA	GCTTCTTTAT	AGCGGCAGTG	CTGAACAATT	540
	CGCGCTTGTA	TGCGGCACGG	ACAGCCCATG	GCGTCCGGTT	TTAGATCCTG	CTACCAGCGA	600
	AGCTCTACTA	AACAGTAGAG	AGTGCTCGCA	AGCATCTTGG	TACTCCGTTT	ATCCCAGTCG	660
	CGCGAGTTCT	AGCTCTCGAA	AGCAGTCCGT	GTGGCTTATA	GCCTAANTTC	TCTTCGGTTC	720
45	CATAACCACA	AACCGTCTCN	TTGNCNTTCC	TGANTTTCAA	GACCCCNANA	TTTTTACAAT	780
	TTNTGCATTT	NTCCNGNGNA	AGGGTGCTNAT	TTATTNTTGC	ATNCNTTTAA	A	

1262UP

50	GATCACAAAGC	TTGTTGAAGC	CAACTGCTGA	AAATGTCTCC	TACGAGAAGA	AACGATTCTT	60
	TCCACTAGGA	GACGTGTGGC	AAATTTTAAA	AGGAGCCAGT	AAGACGCAGA	CTAGCCCCAG	120
	CAGAAGCGCC	AGTAGTTGTT	AGGAAGCATT	CCAGAGCGTA	TACGACACTT	TGAAGACGGA	180
	CAGCGTTTCA	AGAAGACAGA	GACAATCAAC	ACCAAACAAA	CATGGAGAAT	CCTCACGTAC	240
	ATGATAATTT	ACAACACATC	CAGGCGGTGT	TATCGAACTA	CGACACATCG	TTTCTCTCGG	300
55	ACGATGAAGA	GGACTACTGT	CCGCTCTGCA	TGGAGCCTTT	GGACATCACC	GATAAGAACT	360

	TTAAGCCGTG	TCCGTGCGGG	TATCAAATCT	GTCAGTTCTG	CTACAACAAC	ATCAGACAGA	420
	ACCCGGAGCT	AAATGGGCGG	TGTCCTGCGT	GTCGGCGAAA	TATGATGATG	AGTCGGTGGA	480
	GTACATTGTT	TTGAGCCCCG	AGGAGCTGAA	ACTTGAGCGA	GCGAAGCAGG	CGCCGAAGGA	540
	GCGCGAGCGC	AAGCAGCGCG	AGAAGGAGCG	AAAGGAAAAC	GAATATGCCA	CCGCAACATC	600
5	TCGCCGGCAT	GCGCGTTATC	CAGAAGATTG	GTATACGTTA	TTGGCCTGAA	CCACCCGTAC	660
	CGTACGAGGA	GGTTGGTGCG	CTGTTGCGCT	CGGACAGTTA	CTTTGGCNGT	TNCGGGANAT	720
	TTACNNATCN	TCCGTGAACC	GCAAAAGGCC	CCATGACCCC	NACGGTNTGG	ATNTNTTTCC	780
	TTCCCGAAAA	AAGAGCGGCC	CNNTTNCGGC	GTGGATGTNT	TTTNTGANGG	CGNGGTGAGG	840
	GGGTACGACC	NATNTGCCTN	TTTTTG				

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1263RP

	GATCGCGCCA	TTCGCTTCTG	AATGGTTCCT	CACAGAAGGA	TTCGTCTACC	AATGGCATT	60
	GTTTCAGCGAG	GTCCTCGCTA	CTAACAGAAT	CGTCTTGTTG	AACTCTCTTT	AGGAAGGTGA	120
5	ACAGTTCATC	TATCCTTTCA	AAATTGATAC	TCGTAAAGGG	TTCATTTGCG	GCGTTAAACA	180
	TACTAGATGC	AGTCATTAGG	GCGGCACTTT	CTTGGTTAAT	ATCGTCAGCT	ATCCTTTTTA	240
	GTGCTTCTTC	CTCATTTTCA	TTGGGCTTGA	ATAAACCTCT	AGCTATCAAA	AACTCAATTA	300
	GTATCTTCCT	GACCTTAGTA	GTTGGTCCGT	CTGTGGGCCT	AGTCATACTC	ATTAAGTGAT	360
	GACGGAGCTT	TTGCACACCT	TTGCCAGAAA	ACACACAAAA	TATTTGACGT	TGGTTAACGG	420
	TAAATTCAC	AGGAGGAGGT	CTGCAAAAT	GTGTGATATC	TGGCCTGAGA	AAAGAAGTAC	480
10	CGCAGTCAAT	GACAAATGAG	AGAGCTTTGG	ACAAGCCATT	ACCAACTCAT	ATATTGGATA	540
	AATAGTCAAA	TTAGTACAAT	ATGATAGGTG	AACTCTTTCC	AATGTGTCTAT	TCCTACCACG	600
	CAAAGCAATC	ATATTTAATA	ACCTCATCTG	TCATCTGAGA	ACATTCAACA	ACCCATATCTT	660
	TTTAGTTTGT	TAATTCCTCA	ATCATATAAG	TATGAATTGT	CCATTTTGTA	CACAACNATC	720
	CNCTTCTGAT	CNNGGANATC	CTGATTCAAC	CTTATCCCN	CCNGAATGA	ACNTGGCCAA	780
	NGANATNTN	GTTTTTCCTN	CTTGAAANCT	CNAAATNCAT	ACCCCGCTTA	CC	

1263UP

	GATCTTAAAA	GCTGGCCTCC	GCAGATAGAC	CTTCTGCGCA	GAGGCTGGAA	ACCTCAACTA	60
	GCAAGTCGCC	ACCCGAATCA	GATAAGCACT	AGAGTCGTTC	CAGTAACAGA	GGAAGCGATC	120
20	AAGGAAGATA	GTAGAAGAGG	ACACTGCTGC	CAGGCTTGAT	CGGACAGAGG	GTTTAGCTTT	180
	CTGTTGAAT	TTAGAGTTTC	GGGGCTTTGT	TTACTTCGTT	TCATTCTTTC	GTGTAAAGAA	240
	GCTGTTTGCA	GGCTGCCATC	ATTTGCCAGT	CGCCAGGTAG	GGTATTGCAG	GGCGACGGAG	300
	TCGGTGAAAC	AGAGCAGGAC	CGAGAACGCC	GATAGACAGG	CGTTTGTGTT	TAAGCGGTGA	360
	GAGCTGAAGC	AGGTCAAGAG	GCCGGCTTGG	GCAGGTTGTG	CGGCGGCGGC	AGAGCACAGC	420
	AGGGCATCCG	AAGAAGGCGG	AGCGTGCGGA	CAGGAGCCGA	GGCGCGCGAA	CAGGGGGGTG	480
25	TGATGACGAG	CGAGACGAAC	AACAACAACG	CGGCGAGCTC	GAACGGCGGG	CAGCTACCGC	540
	CATCGGGGCT	TCCGGCGAGC	TGGTTTACGA	CGCCATTCCCT	GCGCGCTCGA	CCACAGACAG	600
	ACAGCAGTAC	TCCAGAAAGT	TTCCGCGAGC	TGTTTCCGGG	TGACGCCAGC	GCGCCAGAAC	660
	TATTTTPTCA	CTTACCAACC	GGCCGNAATG	CCCCCCTT	TNTTGNCCAA	ANACCATT	720
	TCCNCCAGCN	CCNCCCTTNC	TAAAACCATT	TCCTACNGGG	NCGAATGAAA	TGGGTTGNNT	780
30	TTCCCGCCCC	NGAGAACACA	TTTTTCCNCA	CTGTGACCCG	ANTNNTTANT	CTCCCNAA	840
	TTATTTTPTC	C					

1264RP

	GATCTCGTTT	TTGTAATGCT	CTAGCTCATA	TTTGTGTAAG	GAGAAGGGTG	AAAACAGCTC	60
35	CGAGGCTGCA	ACTACTGCAA	AGAATAAAGA	GCAAAATATG	GCACATAAGA	TGTCTTCCCA	120
	ATTCAATTTGG	TACAGCTCTA	ATACTGTGAA	CCCTTAATCT	CGGGTAGGCG	CAACAGTTAT	180
	GCGGCCAACC	ACGTTAACGT	GATAATGATG	TAGGTACCCC	GGTGAAAAAA	AGAGTATGTG	240
	GAACCGCCCA	GCTGAACCAA	GCGGATGAGA	CATGCCAACC	ATATCCAAGC	ATACTTGACC	300
	ATGATGACGC	AAAACATCT	AGCATAGTTA	GTCTTGCAGC	TGAGACAGGC	TTCAATCGTA	360
	AACCTCCAC	CTTCACTATT	GTCACGTGAG	AGGCAACATA	ATTGATCTTG	TGACTACCAC	420
40	CCATACATTT	TGCTACCACC	CATACATACT	AATTAATGGG	GAAAAATAGCG	GCTGGTACAG	480
	ATTCTTGTCAT	CTCCCTGCC	CAGAGGGCCG	CGGGCCTCTC	GTTCCCCAGC	GCGCGCAGGC	540
	GGCCGCGAGC	CGACTGTCTT	ACTACGCTCT	CCCTGTGTCG	CCGTGGTTAC	CGCGCCTCAA	600
	ATTACCAANC	CTCCAATTTT	TGANATTCCC	CGACAGTTNT	GTNCCNTNTT	TTTACCCCAA	660
	TTCCGGAAAT	TCCCTATTAA	ANGGTAAGAC	CCNNNTTAC	TTTTGTGGAN	TAACCTNNGG	720
	CGTNCITNNG	GGNNTNCCCT	TTNTTACNGG	CCCCNTTCA	GGCCTTTTGG	TTCCCTAAAA	780
45	CCGGTNAAAA	AAAAAAAGAT	T				

1264UP

	GATCTCATGT	ATCACAACCA	GACTATGATG	CGACTTGGGG	TGACTATGTC	TCCTTTGCCC	60
50	AGCGGTTTCA	AGAACGAGTG	AAAGACAAGG	ACCTTATTTT	GATCGACTCT	GGTGACAAAC	120
	GTACCGGTAA	TGGTCTCAGT	GATCTCACTA	GTCCGATGGG	TTTGAAGTCA	AGCGGTATCT	180
	TTAACCCTCA	GAAACTTGAC	TTGTAACTC	TCGGTAATCA	TGAAGTGTAT	ACGGAAGATG	240
	TGGTTTCGCT	GGAATACTAT	GGAACAGCAA	TGGAGCCTGA	GCTAAGTGAT	AAATATGTCA	300
	CAAGCAATGT	GGAATTTATC	ACAGAAGATG	GGGACGTTGT	ATCCGTTTCG	CAATAAATAT	360

	AGGTACTTTG	AAACGCCAAA	CCAGAACTCTA	CGTGTATTGG	CGTTTCGCATT	CATGTTTCGAT	420
	TTTCCCGTGG	GCTGCTAAAA	ATGTTAGGTT	AACCCCTCTG	GCCGAAGAGG	TTAAAAAGGA	480
	CTGGTTCACC	CAAACGTGTG	AAAAGTACCC	GCTGACAAGC	TTGATATTAT	AGTTGTCTTC	540
5	CGTCATTTAC	CAGTCACCCG	TGGCGAAACG	AGAGCTTCTG	CAGTTACACC	AACGACTAAG	600
	GGAATCTTAC	CCCGACACTA	TTATCCCGTA	CTTCCGAGTG	NNTACTCAGT	CNGAAANTCC	660
	CTNGTTTTFG	ANAAAAACGAN	TGCTTTACCA	ACGGCGAAAT	TCCTGAAACA	TGGAATCCNA	720
	TCAANANNNG	TTTCNCAAGA	AACCAAATTT	TCCATTTCNAT	ATGACTTACC	CAATTCCTTT	780
	TCCCCTCCNG	NTTNANACTC	CAAATTCNT	CCAAGGAAGA	ANANTNACNC	CC	
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1265RP

	GATCTTGCTC	AGAAATAACT	TGCATTGTCT	CCACTATTTT	CTCAAGATTA	GCATTTATGC	60
	ATGTCACTAG	GCATTGCGTT	TCAGGTAATG	CATTCCCAAC	AAGTGGCTTA	CGATCTGGAA	120
5	CAGATTGTGT	TCTTTGTGAT	TCTGGTGGAG	CCGTACCTCC	AAAAGTTGAA	TCTTCGTTTT	180
	CCGCCGAGCA	GGAATTGCAT	GGACGAGACT	TCTTGTGAGA	CATAAACTCA	AGTGGCGCCG	240
	CTCTATCTGA	CATATCTTCC	TGACTCTCTT	CTGCATACGT	GCGGTACCT	GGCTCTAGTT	300
	CGTCCTCAGT	CCCTACGTCT	CTTCTTGCAT	GCATATCCCT	TGTCGTCAGA	TATGTTTCTC	360
	TCTTCGGGCT	AGAAGGGTCC	TCATTTGTAG	GATCTTGAAC	AAAAAGTAGT	TTGTTATTCT	420
	CCAGCTGCGC	AGTCTCTTCC	AGGTTTTACT	TCCGATGCTT	ATTAATACTG	GTTCTTTAGA	480
10	TGGTTCCCTG	ACTTTGGCTA	TAGGCCATTG	GTTCCGGCGA	CTTGTGAAGG	TATGCATTGA	540
	GAGTCCTCCT	GGTTAAACGT	GTNGTCCCCC	CGTTATTTTA	NCACGGCTTG	GCCGGAATGG	600
	TACACNGNTG	AGTTAATCNC	NGCGGGTTGC	NGTTCCATCC	TGTGGGGGGC	CCACCCAGAA	660
	CCCNAACTTN	GGCGCCACNA	TTTCCNCTCN	CCAAACNNTT	TGGCCNAAAA	AANAATTNTT	720
	CCCCCAAGGN	NGGANNACGC	ATACCCCGAN	ATGNNGTATN	TTGTGGGGGN	AACCCCNNA	780
	ANCCCNCCC	CCCNNGGAA					

1265UP

	GATCCGGTCG	CCGCTGGTGA	AGGCAGCGAC	GTCGTTGTAC	CGGCAAGGCG	GCCTGCGCGC	60
20	GTTCTACCTG	GGCAACGGGC	TCAACGTCAT	CAAGGTGTTT	CCGGAGTCGG	CGATGAAGTT	120
	CGGCTCGTTC	GAGCTGGCGA	AGCGCGTGCT	GGCGGGCTTG	GAGGGCTGCG	GCGAGACGGG	180
	CGAGCTCTCG	CGCCTGTGCA	CGTACGTTGC	GGGGGGGCTT	GGCGGCATCA	TGGCGCAGTT	240
	CTCGGTCTAC	CCAATCGACA	CCTTGAAGTT	TCCGATACAG	TGTGCGCCCC	TGGATACGCG	300
	CTGCCGGGGT	CTGCCGCTGC	TAATCAAGAC	GGCGAAGGAC	ATGTACCGCG	AGGGGGGTCT	360
	GCGACTCTTC	TACCGCGGCC	TTGGCGTTGG	CATTTTGGGC	GTGTTCCCCG	TACGCGGCGC	420
	TGCACCTCGG	CACCTTCTCG	GCCCTCAAAC	GCTGGTACAT	TACCCGTCGC	GCAAATGCGC	480
25	TGGGCATCTC	CCGAGAACGA	AGTGGTCATG	AGCATCTCCG	TGTGCTGCCG	AATGGCGCCT	540
	TCAGCCGTAC	GTCCGCGCCA	CGTGTCTACC	CTATCAACCT	TCTACNGANG	CGNTCCCAGC	600
	CCCAGNAGT	TNTCNCNCCC	CCCTCCTACA	ANGNTTCAAN	TNTTTCGGAA	AACACCNCNN	660
	AGGCCCCCCC	GCTTTTACAA	GGTTGGTTCC	NACATTGCCA	GGTNCCCCNC	ATCCCACNCT	720
	NTTTTNTTNC	NAAANTTAAA	NNCCANCCCC	CCNAATAAAG	GCCCCTNTTC	CCCCCNACCC	780
30	CNGGAATAAN	GGTTCGGNCT	MNAAAACCAA	NACNCCCCC			

1266RP

	GATCTTATCT	GGAACACCCA	TTGAGAACGA	TTTATCTGAA	TATTTGCGCT	TACTAAATTT	60
35	TAGTAACCCCT	GGGCTTCTCG	GTACGCGGGC	ACAATTTAGG	AAAAATTTTCG	AAATACCCAT	120
	TCTACGGGGT	CGGGATGCTG	ATGCTACTGA	CAAGGAGATC	GCTGCTGGTG	AGGTGAAGTT	180
	ACATGAGTTA	TCCAGATTTG	TGTGGAATTT	CATTATCCGG	AGAACCAATG	ATATCCTATC	240
	GAAGTACTTA	CCTTGTAAAT	ACGAACATAT	TCTATTCTCT	AATCTCTCTC	CGATGCAAAA	300
	GGCAATTTTAC	GAACACTTCG	TGAGGTCACG	AGAGGTTGCC	AAGTTAATGA	AAGGTACAGG	360
	GTCCGAGCCA	CTGAAGGCGA	TAGGTTTGCT	GAAAAAGTTA	TGTTACCACC	CTGACCTGCT	420
40	AGATCTCCCG	GATGAGATCG	CCGGTCTTAC	AAATTTAATT	CCAGATGACT	ACCAGAAGTG	480
	CTAGTGACAC	ACACTCCGCC	GCCGAAGAAN	TTCCCCTTTT	GNATTTCCAAC	GANACATTCC	540
	ATCNAATTTT	GCNATTCCTA	GAACGTTTTC	NGTTTTAGAA	TCCAGCCNTG	ATTCTAATGA	600
	AAAAAATGTC	CCNGATTTCT	ACNNCCCCC	ACCTTGGATT	TTTTCCAAAA	AATNTNNCCN	660
	CCCNCCCCCN	GGTTTTNTTC	CANCTGAANG	NNCCCNNGAA	ATTAANNANC	TTTNAACCTT	720
	TTGAAAATTC	CAAAACCCCC	GGGAGAATTT	NTCNTTTNTT	TCCCCCNNGN	CNNGGNNNGG	780
45	NTCCCCCTTT	NGGCCCCCCG	NGAANTTTGA	CCCCAAAGN			

1266UP

	GATCTGTCAG	CATTCACAGA	AACCATCGCT	ACGAAAAGTT	TCCTACAAGT	AATCCCAGCC	60
50	AGCCGAAGGA	CTCCCCGTG	GGTCTGTAG	CCGTCTTGGC	AGCGCACAGT	TTCCAGGACT	120
	TGTCTTCTGT	TGGTCAGAGT	ACTAGGCAGG	ATGCGTTTGC	TTATTCCAAT	CACAGTGTG	180
	TGGCTAATGA	TCCGACAGCC	TCTTTACCGC	GAAACCTTGC	CCCAGACTCC	ACGTTCACTG	240
	CGGAGTTTAA	CCAGCTGCTA	TCTGAATCCA	GCAACTGCCT	TGAGCTTGAT	TCTATATTCT	300
	CAGGCAACTC	AGTTCTCTGG	AATGGCGAGA	CCTTAACTTC	TGAAGCAAGA	GCTACCTTCG	360
55	AGGGCGATGT	GCCATCTGTC	TCCGAAGATG	CCCCGCGACG	CAGCCAGGCA	AATTCTGCAC	420

	AGAATGGCCT	GAAGTATTGA	GTCTAGCGGA	CACTGAGTAT	GCGGACCTGG	ATAGTTTGAT	480
	CACTAATTTG	TACTTCTACC	ATGCGAGGGT	TCGTCCCGCG	GGTCTGAACG	TTTTGTTATA	540
	ATGATCGATT	TTAGAAAATA	TAAGAACCCC	CTTGAATATG	AATACNGNCN	NTTAACCCCC	600
	GGGGGTTGCT	GATACCCCCC	CTNTCCCCCN	CTNGGNTGAA	TTNTTACCCC	NCGGNGGGGN	660
5	GANAAANAAT	TCCTGCCNNC	TTGGGTTCCN	AANCCCCATT	CCCTTTNNAA	TNAAAANTGC	720
	TTCCNNGNCN	TNTTAAAAAA	AAAAACCGTG	TTGCCCCNAT	AACCAAATCC	CCNCGCANGN	780
	AATTCCTGG	GTTCAACANC	CGCTCAC				

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1267RP

	GATCCATTCC	ACCGGATTGC	AGCAGCTAGT	GCATTTGGCC	ATACGCCCCGA	TTGCCCTTTC	60
	TTATAATGAA	TCCCGGCTTG	TAGAGCATCA	TCCGGCACTT	CACGTGGTAT	TGAATAGCTC	120
5	CTCATAACCG	CACCGGAAGA	TTCAGGAAT	ATATCTGGTT	GTGTAGTGTA	GAGGTTATCA	180
	CTGTGGATTG	TGATATGGCT	GTTGCAGCTT	GAACATTCCA	CTAACCTCGG	TTCGAATCCG	240
	AGCACGAACA	ATTTTGTGNC	TNAANCCNA	NATTTTNNCC	CCTANAATAN	TGGNCTNNCC	300
	AAAATCNTCN	NNTTTNAATT	TTTTCCAAAA	CTTTGTCCGT	GACCGGANTN	GAAATGNGGG	360
	NAAGTGGAAT	GTCCAAGNCG	GGNNCGCNAA	ATTAGAATTC	CAGGGAAAAAT	TCCTACANTA	420
	NANAGGTGNC	ACCCNCGGNA	ACCCCGGGGN	GGGNNNACTG	GNCCCTTTNA	ACCTGNGAAT	480
10	GCGGTNTTCC	AACCTTTTNC	CGGGNGGCTT	GGCCCCCNV	TTAATNCNAT	TACCCNCCCC	540
	TNCTTTTCCC	NAAANNGATN	CCCCCCNCG	GAAAGGTTCTN	TTNNNNANCN	TAGGAGGCCC	600
	CTTNGGTCCG	GAATTNGNIN	CCTTTCNNC	TCCCCCCCCA	AATCCNGGAC	CCTGNAANNC	660
	CCTTNTNCCC	CCCNPTTTTAC	NNTTTTCCNN	GNAANTNCTT	CCCTTGGCCC	ATCCCCGGAC	720
	NNNAATTGGG	GNPTTAANGG	CCCCCGGNC	CCCCNCNTGN	AAAAAGNTNN	GGNNCCCCCC	780
	CCCCCCTTN	GN					

1267UP

	GATCCGCATC	GTTTTGTTGA	GTCATACTAC	CTGGACGCCA	TGTTCCGCCGA	GCTGGCGCCG	60
	CCGGCGAGTC	TCGGGTCACT	GGTCGGCTTG	TGCAACGCGG	ACTGTGCCCC	CTCCTACTGG	120
20	TTGGAGCTAC	CCAAGGACCG	TATCCTGTTC	CTATGTGCGA	TTGCGAACCT	CGTAATCAGC	180
	CACCTCGTGA	ATGTAGACCC	AGCAGCAAGG	GACATGCACG	CCTTCTGGGA	GAAGGTGAAT	240
	GCGCTCTTCT	TGGAGAACGG	CTCAGGGCGG	ATGCTGCAGA	AGGAGGCTTT	GGTGCCGCAA	300
	CCGAAGAGCT	GCGAGAACGA	TGGCGGCGAG	GCGAACGTTT	CTGCGTCCCC	GATTTCCCGT	360
	TCGCAGACAC	AATACACATC	GGACCAGGGC	AGCAATTACA	TGAACCCGCA	CGCATTCCGC	420
	ACGGCGGCCG	ATGCGGCCCG	CACAGGCGCC	TCGTCTGTTG	CGCCTAACAG	CGACACCCTC	480
25	TCGTGCGGAC	TGGCTTCACA	CAACGCCTGC	GCCCCAGAAG	CGTCGCGCAG	ATTCCATACC	540
	AGACTTGCTG	ACGCAGCGTC	GAGGACGCCA	TCAGACAGGG	AGCTTGCTGC	TTTGACCAGA	600
	AGGGCTTGAG	CAGGATTCCC	AGGACGACAC	GACCGCNCCTG	TAATGCAACT	GTTGTCTTTC	660
	CNATTTGCGC	CCTATCCCCC	AATGGAACGC	CACCTCCCCNG	AAAAAAAAAA	AATTTTCCGN	720
	TGGATATTTG	ATGAATTGAA	TTAGAAAAAT	TACNTTTCTN	NNATTCTTGC	GGTGCCACAA	780
30	CAATTGCGAN	TNCTAGACCC	GCGNCCTGGC	NTTNGGTTTT	AAAT		

1268RP

	GATCCTGAGA	ACACTTTTTC	TGTGGAGGCT	TATCAATGCT	CTTTCTATCC	GCAGCTTCTT	60
35	CCAGGCAGAT	GAATACTGGC	AGTCGCTGGA	GCCTGCGCAT	GTTAAGGCGT	TTGGATATGG	120
	TGGGCTGACT	TGGGAGTGCC	AGCATGGGCT	GCGCAGCTAT	GCATTCCCCG	TGCTCTTTGA	180
	AATGTCGTAC	TATGTGGCGT	GGATACTGGG	TGTGGCCACC	CGGATGGCGC	TGCAGGGGTT	240
	GGCACATGCG	ACGGCGCTGT	GTGGGGCGGT	GGTGCCGAGC	GGCGCGGCGG	GCGTGGCCGC	300
	GATGAAGGCC	GTCTGGGAGC	TGCCGGAGGC	AGCGCAGGAA	CTGGTGGAGT	ACTACGGGGT	360
	TATTGTACGG	GCCGCGAAGT	GGTGATGGCG	GCGGTAGCAG	CGTTCCGGGA	GTTCTACAGC	420
40	GTGCTGCTGG	TTGCGCAAGC	TGTATCTGCG	AGTCGCGGAT	AAGGGGGACA	CCAGAAGGGC	480
	GACGCGCGCC	GTCAGCCGTT	GCGCTGATGC	TGACCATGAC	AACTTCTTCA	ACTGTTTCTT	540
	CGCGACGCGA	ACGTTTATCA	CTCCTTCGAG	ATGACGCTCA	CGCGTCGCGC	TCTACCATTG	600
	ATTGAACGGG	CCTCACTTGG	TTCTCTNGCT	TCNCCCAACT	TGCGGTGGCT	CTTTTGCCCTG	660
	CCTCACGCCA	NTACTTTTFA	TCTGGCNCCT	TGCTNTTCTT	GGTGNGANCC	TGTTCCCCCN	720
	ANNGTGNCN	CCTTTTAAACC	CGNCCCAAGT	TGCCCCGAGC	CCCTGCGGTN	TTTCAATCCA	780
45	ANNANNC						

1268UP

	GATCCAGGTA	TACCCGCCTC	CGTCGCGCAG	CGAGCTGCGC	AGCCGCTTCA	TCGCTGCAAC	60
50	TGAGAATGCC	CTCGACCTGA	TGTGCGGTAT	GCTGACGATG	GACCCGCACA	AACGGTGGGA	120
	CACGACTCGT	TGCTTGCTCA	GTCAGTATTT	TGTAGAGCTT	CCGGAGGCGA	CACCTCCTAC	180
	GGAACCTTCCA	AAACTAAATA	AGTAATGACT	ATGATAACCT	AGATGGGTATA	CTCGGACGTT	240
	TTGTGTTTGT	GCTTTTGAGG	GATGACATPG	GCTTTTATGG	TATCGCAGAC	GTTGCGCTGAA	300
	AAAGATTCAA	CGTCTCGGTA	ACAGATTTGC	GCAGACTACT	TGTTGAAAGA	ACAAAGACCA	360
55	GAGCGCTGGG	ATGCTCACCC	CAATGACGAA	CCCACTCCGC	CTTATTGGCG	CTGGCTGCAG	420

	GTTCCCTTAGC	ACCAACAATA	GGCCGCCACT	GCACAAGATC	TTTCCCTCCC	AAGAAGCTGG	480
	TGAACAGGAT	GCTGTTGAC	CTTGATAGCC	GACTGACCTT	CCCGGAAATT	ACTGCCTGTA	540
	TACGAGCAGT	TGTACACCCC	AATTAGACAG	TAGTACGGCG	ATTTGTAGTA	CCCCGCGCGT	600
5	TGAGGGCGCC	ACGACGTTTA	TGATTCATGA	AAAGGTGCTG	AGAAGACTCG	CCCCCCAGAA	660
	CGAGAGCTCC	CATCGCCNTC	TACTTGCNCC	GGANAACAAC	TGCTTTACTT	GCTGCCCANT	720
	GGANACNAAA	ATGCACGNGC	NCTNCCCTTG	ANCCCGTGCA	CCGNITCGCC	NAAGGNNGCA	780
	AATGAATTTG	CAATTTAGNT	CNGATTTTAC	NCTCTGGNTC	CCCCCCCCCA	CTGANNGANC	840

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1269RP

	GATCCCACTC	TTGGCAAGCT	ATACGGTGAC	ACTATCATAG	CTCGCGGTGG	CCTCTACGAG	60
	ATGGAAGACA	ACCTGGGCGA	GTTCTTGGAC	AGAGAACCCA	ATAACGAGGC	GTACCTCAGA	120
5	GATCAGGGCC	TAGCCTAAAT	GCTCCTTCTT	TTCGCGGGCT	TCCTGCCCTC	CTATGTATAT	180
	TCCAGCTAGA	GAATCGCAAG	CAAGCCATAC	TTAGAAATAG	GATATTGTTC	CGGGAACACT	240
	GATTTACTGT	GCGTTACTGC	TCCGGAAACT	CACCTGTTTC	GTATCGAATA	ATTAGCGTTC	300
	GACTACCGCC	AGTGTGATGC	TTTCTTTATA	CCGGCATACT	AAAACAGGGT	CCTCAGTCGA	360
	ATCGTGTGTC	ACTGAATATG	AGCCCCCTCA	TGAGTTCCCA	TCGCGTAGAG	CGTCCTATGT	420
	GCAGACCATA	TCAACACCCCT	CTGTACACGC	GTGGAGTTCA	ATATACGCGT	ACGACGCACA	480
10	TACAATAGTA	CGTGTGCGCA	ACCGTTATAC	GAAGAGCTGC	GTTCTGATTG	CAGCATTTC	540
	CAAGCCCCGG	AAATACAAAA	CCGCATTTTT	AGCCCACTGC	GATAGATGTC	CTGAACCANG	600
	GAATTACANC	GAAGGNCGAT	TGCTACTACN	ANCATCANCC	AGGGCTCGNG	TATTTCTCAT	660
	CCATCCCCCT	CNAACNAAAA	ATCCGGANTT	TTTAAATTTT	CATGCAAACC	ATNCANATCC	720
	CCNTTTNGAT	ATTNCCCCAC	TGGCCCCCCC	NCCCCCANNT	ANCNGTCGGG	ATCCNGNATT	780
	CCCCGGT						

1269UP

	GATCGAACTC	CATGAAGGAG	CGTAATGGCC	TCGTGGAGCT	GCACCGCACT	GGGTGCGTAC	60
	ATAGCGGGAT	GTAGGAATGC	GGGGATAACG	ATTCCGAAAA	GCTGACTGGG	CTGCGCCTCT	120
20	AGCTTCAGCT	CAAGCTGGCG	CAGCAGCGTT	GCTATAGGCT	GTTGTGGCGA	CAAGGTCGAC	180
	ACTTCAGTTG	CAGTAGGAGC	AGGTAGCATA	CGACTAGTTA	TATCGAACTG	GTGCGGTAA	240
	TGAGGATGAG	GGTCAATTTT	TGGCTCCGAG	CGCTGGCTAG	CACCACAATT	ATCACCAAGT	300
	CCATACCTCC	ATGCAATTCT	GAGATCTTGG	CTACGTGCGA	CCGGTTTTCG	ACCCCTCCG	360
	GCTAAGTTT	GCACCGTGAC	CTTCGATTCC	TCCTGGGAAA	TGCGAGATT	CTTTACCTCT	420
	TTACGTGTGC	CCTGGAATAT	CCCCGGCAGC	TCCTTCGCAT	ACTGAGTGT	GAGCGTGATG	480
25	ACCACCAT	GCGTTATCCC	CCCCCCTGN	GGGCCCNAN	TTTCCCCCCC	GGTTATTTCT	540
	GTCCCTGCGC	CTGCAANAAC	TTCCANTTAC	GANGCAATCT	GGTCCCCCTG	TTCTTCCCCC	600
	AAAACATCTG	GCCCATTGGA	NCCCATATGC	CCTAGAACCN	ATCCAATCTG	CANCCCCGNA	660
	NTTTTGGAA	ANNAATTACC	GGNAAGGANC	AACCCGGAAG	NAAAGCCCGC	CCCCCTGTG	720
	GAGCCNACTT	CCCCCCCCC	NAAAACNGA	ANTTNNTTTT	TNNTTTGGCC	CNANCGNCCN	780
	TTTTTCNGCCC	NGCCGGGGANG	GCCTTAAAAAN	TTTNTCCCCC			

1270RP

	GATCATATGG	TGAACTTGCC	ACATACAGTT	GAATCATCCC	AATAGCAAAG	AGAACGTAAG	60
	ATTTACCTAG	CGCGGCATCA	CCTGGAATAT	CTAGCATTTG	CAGCGCAGGT	GAAAAGAATT	120
35	TCTCATGAAT	TGATTGGAAA	TGTGGTTCCG	TGTGTTCCAT	TGCTAAGCCC	GCTAGTACAC	180
	GATAATCATC	ATTAGATCTA	CAGGTTAGAT	GGGCCTTCAC	TGTTGCCTTA	TACCACTCTA	240
	ATAGAACCCTG	CCTGTAACGA	GCATATTGAT	CCTGAAGAAT	AACCACCGAT	GCGTCAACCA	300
	TCGAATTGAG	CAACAATGTC	GCGTCATTCA	CGGTTTGAGT	GATGTGACTT	CCGGTGAAAT	360
	TCTCAAAGGA	ATTTAATTTT	GGTATCAACC	CCTTCAACAA	GGAAGCTGTG	AAGATATCAT	420
	CAACATGCGA	TTTGTAAGCT	AAACCTTCCC	GCATCCATAG	GAAATCAAAA	GTGGCTGGGA	480
40	AAGCATAGTT	TGCGCTATTG	GCTTTGACTA	ACTGCGAAGT	TAGAATACTA	CTTGTGGGCG	540
	CCAGTTTGAA	TAGCAGAGTT	AGACATTCAA	CGGATTCTNA	GAATATAATC	CTNGCGAATT	600
	TATCCATCCN	CCTANAAAAAT	TNTTTCNCNC	TTGATCCANA	ACNANAAAAAT	TCCGTTGACC	660
	NCTGAAGACC	TATTCCTNCC	TTTNAAAGAC	CTGCNCATT	TTCNATTTCC	CNAANGNNTC	720
	CCGTCTTACC	NAGAAANTTC	TTGCATGCCN	NCATGGTTTN	AACCNAAACN	TCCTTTGANG	780
	NTANTNACTT	CCCCCNCNC	AATTTA				

1270UP

	GATCCGATTG	TCAAATTTTC	TGAATGGTAT	GGTAAGAAGT	TTGGGGCTGG	AAAGGCTAAC	60
	AGTGGTGTTA	TATCTTTGCG	TGATATTTTA	GCTTGGGTCG	AGTTCAATTA	TAGTACCTAT	120
50	AAGGCATTTG	CTTGCCCTTA	TGCTTCATTA	ATCCATGGGG	CGGCAATGGT	ATTCAATTGAC	180
	GCCCTTGGAA	CCTAACACAC	AGCGTACCTT	GCCGAGAGTG	AGGAACGATT	AGAACACCAG	240
	AAGCAAGAAT	GTCTCAAATA	TCTGTCTGAA	CTAGCAGGAA	AGGATTTAAA	CAAATACATG	300
	TCTGGTCCAT	TCGATGTTAA	GATTGACGAT	GAAACTCTCC	AATCCGGGCT	TTTGTAGCTA	360
	CCCAGAGTTT	CTTCCTCATC	TGTCCAACCG	GTTTTCAATC	TTGGCGCACT	ACTACAGCCT	420

	ACAATCTCAT	GAAAGTTGTC	AGAGCAATGC	AAGTACAAAA	GCCATCTTAC	TGGAAGGATC	480
	ACCTGGTGTT	GGTAAAAACCA	CATTAATTTT	CGCATTGGCT	GACTGTACCG	TTACGAATTA	540
	CCCNTTTTAA	TTATCCGAAC	CAACTGATTT	GAATGAATTA	TTTGGATCCG	AAGCNCCCCG	600
	AAAAAAAAAAN	GGNAATTTNT	TTTGN GTTGA	TGCCCCCNIT	TTTNAAACTA	TGCCAAAGTG	660
5	GATGGTTTTN	TTTAAATAAA	ANNANATTGC	NCCCCANCCN	TTTTTAAGGN	CNNACCCTGT	720
	TTGTNNCCNT	GGNGAACCCA	NTCCCAAATT	TAANAAAATT	TNTCGCCCCC	ATCCGCTTTT	780
	TTGNTNCCCA	AACCCANACA	GGGGNGGTGA	AAAGGGNTGC	CAANCTTCCC	TC	

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1271RP

	GATCATTATA	TTATAAAATA	TAATAAAGAA	TATATTAAAA	TAATAATAAT	AATATGAAAT	60
	ATTATATTAA	TTCTCCATTG	GAGCAATTG	AGATTAGAGA	TTTATTAGGT	TTAACATCAC	120
5	CAATAATAGA	TTTTAGTTTT	ATTAATATTA	CTAATTTTGG	TTTATATCTT	ATAATTCTTT	180
	TATTAGTAAT	TTTACTAATG	AAATTTAATA	CTAATAATTA	TAATAAAATTA	GTAGGTTCTA	240
	ATTGATATTT	AAGTCAAGAA	ATAATTTATG	ATACTATTAT	AAATATAGTT	AAGACACAGA	300
	TTGGTGGTAA	AGTTATGAGG	TTATTATTTT	CCATTAGTTT	ATACATTTT	TATTCTTATT	360
	TTTACTATAA	ATTTAATTAG	TATAATCCCT	ATTCATTTGC	TATAACTTCA	CATGTAGTAT	420
	TTGTAGTATC	AATAAGTATA	ATTATTTGAT	TAGGCTCAAC	TATTATTGGT	TTTTTATACTC	480
10	ATGTTTAAAT	CTTTGTTTTAT	TTTACCACTA	GGTACACCAT	TAATTTAGTA	CCATTATTAG	540
	TATCCATTGA	ATTATATCCT	ATTTGCTNNA	ACTTATTCCA	TAGGTTTTTA	AAATACACTA	600
	ATATATACCG	GTCCATTTAT	AATGGTTATT	TAGNNGGTTT	AATATTNAAT	TNAAAACCAN	660
	AATATTTACA	TTTTATGGTN	NCCNCCCAAN	AAGGCATTGG	TTTGGTTNTT	TAAAAAGGCN	720
	ACCTATATCN	CTTANITGAT	NTTTTTTATN	CCCCCTTTTA	AANANCNATT	TTNNCCTTAT	780
	TAAANTAAAT	C					

1271UP

	GATCAATCTT	TCGATCATTG	TCCAATATTC	CCCACTGCTG	TATCATATAG	ATATTGATTA	60
	TAATTTCTAA	ATCAACGTGA	TTGTTCTAAC	TTTAATTAAC	AATTATGAAT	TTTTGGCTAG	120
20	TTATTATTTT	TTAATTAAC	AATACCTAAA	TCATTATAAG	CTTGACTTAA	AACAAATAAT	180
	TATTACATTA	TTCTTTATTT	ATTATTTAAT	ATTTAGTTAA	ATTTTAAAGT	CATTATTCCT	240
	AATTTTACT	CACGAGTACA	CCACTTATTA	ATACTATTAA	TTAATAATAT	TAACGTTTGA	300
	TTGCGATGTG	TAATGTCCTT	AGTTAGCGCT	TAATCTGAAC	CAACATCATG	TTCTCATTAT	360
	TATTAACATAT	TTTTAATTAT	TTTAAATAAT	TATTTAATAC	GAAAGTTATA	GGATTGGAAC	420
25	CTATGAAATC	ATAAAGATTT	ATAATAGCTC	AAATATTACA	CTTTAAACCA	CTCAGTCAAA	480
	CTTTCTTAAT	ATATATACCT	TATATATGGT	TTGATAATTT	ACTTATAATA	TATAGTATAT	540
	AATTTAATGA	TAACCTCTTAT	CATTTAGGTG	CGTAGGGTTC	ACCCCCCTAT	TGCTAGTCAG	600
	CATATGAGGT	ACCTCCCCCC	AATGATAAAA	GTTATAATAT	ATAATATTAT	ATTAAGTATT	660
	TAAAGAANAT	AATATAATTA	TTTAATAATA	TTTTTTATTTA	GGNNAATAAA	AAAAANTTTC	720
	ANNTTTGAAA	NANGGTGCNG	AGAATTANAA	AAAGCNAATA	ATATGTTCAA	TTTGACCCAT	780
30	TAANAATGTA	GTNCNCTGAC	ATCNCCTATT	TCCTATANAA	ANTTTTANAAN	AANA	

1272RP

	GATCAAACT	AGGTTCTCCG	ACGGCAACGG	TGACGAGTTC	GTGAACGCGC	TCAAGCTCTG	60
	TGGCTTTTTT	CATAAACACA	CAGACAAACG	CAATAAAATG	TTTACGAAGT	TTGAGTTCTT	120
35	CAAGCCTCCA	AAGGAGATCC	TAGAAGAACG	CAAAGCCAAG	CTCGAGCGTA	AGCAGAAGTT	180
	CATCGAAGTG	GAAACAGAGA	AGGAAGCTCT	AGAGTCTAAG	CGGTGCGAAA	ATCCAGAAGG	240
	AAACTGGCTA	CTAAAGCCAT	GTATATATAA	ACGGAGGTGA	TTGCCTAGTC	TCTTCTCAGC	300
	ATGCGATCAT	ACCTTATTCG	TGTAATCTTA	TCAAACTATA	TATAGGGCGA	CCGACAGCTT	360
	CAACCGTTCC	TAAAAAAGGT	TTGGAAGGTG	AACAGCCGCT	GGATGTTCTC	CACATTTCGTG	420
40	AATGTAGGCA	TTTGTGGCCA	TATGCTGCTT	GTCTCCGAGC	TTTTCTTGTG	GGGCTCCCAT	480
	CTGTGCGCCAG	GAGCGGAATC	CCGTACGCAT	TGTACCTGTT	ACCCTGCTGC	GAACAGCACC	540
	AGAAGAGGCT	GATAATTGTA	GTCNCAGCAC	ACCATAGACG	CCGAACAATG	CCCCAAGCGC	600
	AGTGCTGCGT	TAGTTPGAAA	TCCCAAAACA	CTTCGAATCA	TCCGTTCCCC	GGAGGCCCAA	660
	TTATCCGAAN	TTGGCTTTTA	AANTCCNAAT	ACAANGANTG	CGCCCCNTGT	CCCCGTGACA	720
	TTGTGCCCCN	CTTAGGNNGC	CCACTCCNN	CNCGAANTTT	TTATTCAATT	AATTCITNCNG	780
45	NCCCCNCTTT	GTGANAATNG	AATTCANTTT	TTN			

1272UP

	GATCGACCCC	GCGCGCATCG	GGCCCTCCGG	CCTGCTGCGC	CCCTCGCGCC	TCGGCTGGCA	60
	GCTCGTCTAC	ATCCTCACCG	TCGCCATCTT	CACCAACGAC	TTCTTCATGT	CCGGCTTCTG	120
50	GCTGCGCACC	TTGCGCGCGC	GCTCCAACCG	CGACCTGCTG	CTCGGCTGCT	CGCTGGCCGC	180
	CGTGCTGCTC	GCCGTCGTGC	TGCTGCTCGT	CGGCGTCACC	GGCCTGCTCG	CCGTGTGGGC	240
	CGGCTACGCG	CCGGTCGCAG	ACCTCGACAG	CGCCAGTTTC	TTCTGCTGCT	TCGCGCGCT	300
	GCCCGCTTGG	GCCAACGGCG	TCGTGCTCGC	CCTCGTCTGC	GTGCTATCCA	CCTGCACGCT	360
55	CGACTCCTTC	CAGAGCGCAC	TCGTCTCCAC	CATTTCCAAC	GACCTCTTCC	CGCAACCGCC	420

EP 0 866 129 A2

	TGCCCCCGCT	CTACGGGCGC	GCCGCGGTCG	CCGTGTCAT	GGTCCCCGTC	GTCGTGTCG	480
	GCCTGCTGGC	CACCCGACAT	CCTGGCCATC	TACCTCATCG	TCGACCTGCT	GTCCGCGCGC	540
	GTCGTCCCCG	TCATGCTGCT	GGCTTCTGGC	CGCGCGCCCG	CGCGCCCTGT	TCTGCCTTGG	600
5	AGCTGATCGG	CGGCGGCTCC	GGNGGGCTGT	CTGCGTTCTC	NTCTTTCCGG	CCATCTATAA	660
	CGCTNTNCCN	CNANGGGGNC	GCTTGCTATT	TATTGNAANG	NCCCTACTTN	AATAANGGGG	720
	NNCTTNNGGN	GCCTNGTCNT	TCCCCCCTN	GGGAACTGTT	TTTCCCGGNA	NAANTTCNGC	780
	CTGGGNNCCC	GTGGENCCCN	CCCGGANANT	CANGNTAACC	NCAGGGGAAN	TCCAAANCTT	840
	CTNC						
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1273RP

	GATCCCAATA	CAAGCAATAT	TGTCGCTACC	AGAATGCCCC	ATTTGCGACC	CATATAATCA	60
	CAAGCGAATC	CCATCCCCAC	CTGCCCTATG	ATAGTCCCTA	TGAGTGATGC	ATTTGAAACC	120
5	CTTGAGATA	CATCTGCACT	ATATTCTATC	TCACCGTACT	GATTTCTGAA	TACACGGTTT	180
	AACATCGACA	TGACATTATT	TTGGTAACCA	TCTGAAATAA	GCGCAAATCC	TGCCGCCAGG	240
	ATACTGAATA	GATGTAGCCA	TTTGCCCTTC	TTCCCCACAG	CAAAACGTGC	TTTGCAGGCC	300
	TCCGCGTCAT	ACTTTAGTAA	CCCTGTCGTG	GACATCGTAT	TTCTGCAAGC	CCCGGCTATC	360
	CGAATAATAT	CTAGCGGGTC	AAGCGTTAGG	TTGCTGCATT	CTATATTATA	TATTTCTCTT	420
	CTCTACCACG	TGCAAATTTA	CCTGTATGAT	TATGCTGCAA	TCTCCGCGTT	CTACTTCCTT	480
10	TCTTGGAGAC	CGCTACCGAC	TGTCATTATGA	TTATCGGTGC	ACCATATGGC	GTCAAGCAGC	540
	ACTAGCTTTT	ACCTGTGATA	CCTTCCTTTA	CTAACTGNAT	TCCGAAC TAN	TTTGNCCCCA	600
	TACTATATCC	TTCCCCCTAGA	GTGAAATAAC	CTTCCATTTA	GGTTNNNTCC	ATTCCCNCAA	660
	ACAGTTTTTA	AANAAANACA	ACCTTTATCC	TTNAACCCCA	AACGCCCAA	AAANAAATTT	720
	TCCCCATTTN	CTAGGTTTTT	TGNGCCNGGA	GGGAAGAAAC	CCCCCTAAC	CCCCTAAANA	780
	ATTCTCTTNC	CC					

1273UP

	GATCGGCGTA	TAAAACTGAA	AGTTCATGTA	TGCTGTCTTG	AATGCAGAGA	CGCGGCGCAC	60
	TTTACACATC	GGCAAGCCTT	GTGTTGCGAA	TGAAACATTA	AGCTTATGTC	AAATACCATG	120
20	AACTGTATGC	CAAATTTAGT	AAAACTCGTA	CGTGCTGGCA	GCATAGATAG	AGCTGTTACC	180
	GATATCTCCC	TTGAGGCTAA	AGCCGAGCAT	TGGGTATTAA	CTTGCCCTGGA	CTATTCCGAA	240
	TCAGAGCTTT	CAGATTCGTC	TTTATCATGG	TCAGTCATCA	AAGTCGTCGA	TGTAGGATGT	300
	TCTATTTTCC	CACCGCAATA	AAGTGCAGTA	TTTATGTCAGT	ATTCAATAAG	CTTACCTCTC	360
	ACCTCGATAT	CTAGCACATC	AGCTGGAGCG	GAACCTAACC	AGACACGAAG	TTTAGTGCC	420
	AGCTCTTCGA	GGAGTGAAAA	TATTTCTTGG	TCCGGCAATG	ATCCTCATGC	GCCATTATAT	480
25	GGCGTAACGT	TAGGTACATA	CCTGTGACAC	CCAACAAAGT	ACAGTTGCTA	ACGTCCCAAT	540
	ATCTTAAAGG	ANCCGTTTAA	ACCNCATATT	AAGGTGAAGT	TTATGAACCT	TTGANAGTAA	600
	CTGNNTCNTT	ATAGCGGAAT	ACCANANNAA	TAACGNCCCT	GTTANGGNAT	CTATCGAAGG	660
	NTTACTTCN	NTTCGANCAAT	TTTATAGTTC	NTNCTATTAC	CCCCGANAAA	TTTGAACAAC	720
	CNTGAGAAAA	GTTNTNNCCN	CNGGGAAANG	AAAANTNTNC	TTNTGANTCC	CCCCGTTTAC	780
	CTTGAAGNTT	CTCCATTTCNC	GAGATTCAAA	TTTTNTAAN	AAGGANTTTN	TAA	

1274RP

	GATCAGAACC	AAAAAGCAGT	TCGAGTATAT	CAGTAAGCAC	TGGGAAGTTT	GGGAAATAGC	60
	AGTGCTGAGA	GTTACGGGAC	AGATTGGCAA	AGACACATTT	GCGATGGAAT	TTAATTCGCC	120
35	GCAGCCAGAG	CACGCACAAT	TACACATTCA	CCCTAAAGGT	GCAGCCCGGC	TGCTGGGAAA	180
	ACTGCACGCG	GAGGGTCGCG	TGATGCACCA	CGAAGATAAC	CAAGAAAACC	GGGGCCGGGA	240
	AGGACCGCTG	ATTCCGTCAC	CGCCGCTGTC	ACCACGAATC	GGGCCGGGAG	AGAACC GGGG	300
	CGCCGTNGGA	ACGGAATCCC	CGAACCCCTT	TTNTTACCCC	AACTTGGNCT	CCNGCCTTAN	360
	TTTCAAACCG	NTTNCAAACC	CCNNCCCTGG	GTTTNTTNGC	CCNNTNCCCA	NTANTTGGGC	420
	TNCGGGGGGG	GGGGCCCN GN	CCAAAAAAA	ANGGGGTNTN	CCNNGGNGGC	CCCCNGTTTT	480
40	ANCAAAAANAT	TNCCCCCGG	GGTTCNCCCC	CNNAAAAGGT	TTTTCCCCCC	CCCCGGGGTT	540
	ACCAAAAANC	CNCCCCCCCC	TTTGGANGGT	TTCCCNNTCC	CCATGGGGGG	TTTTCNCGGG	600
	GCTCCCCCN	GGGGAACCCC	AAAAAAGGGC	CCCCCTTTT	NTGGGCCCCC	NAAANNC CCC	660
	CNTNNTTTTC	CAGANGGGTT	NCCNCCCCCC	TTTTTTTTC	CCATTANNCG	GGAANTCCCN	720
	NTNTTCCCCC	CTTNNCCCC	CCCCCAAAA	ANNAATTTT	TNNATTAAAA	GAGGGCCCCN	780
	NGAAAAANAA	NACCCNNCCC	CAC				

1274UP

	GATCAATTGC	GGATACACGA	GGCACAGGGC	GATAGGCCAA	GCTTCCAAGA	ATGGGAAGAG	60
	TACCTAGTCA	GGGTCGTCTT	GGTAAGACTG	AACCGCTGCA	AGCAGCTCTA	TACACAAAAT	120
50	GTAGAGATT	TATTCGATAT	ATATCCGCAG	ATAGACCGCC	CATAAACACT	AATGATACGC	180
	TAATTCATAC	ACCTACAGCG	TGTACATCAA	ACACACACAC	AAGTTTGATG	CACACGCTTT	240
	ATTGTTCTCT	TGCACACACT	TGATTTAGAC	GGTCAACACC	CTCAAGGTGT	TAGAGTGGCC	300
	AACACGAC	GCGAAACCTT	GAATAGTGAC	AATAGTGTCA	CCCTCGCTCA	GGATACCAAG	360
	CTCCTTGGAC	TTCTCCACAC	CGAAGTTCAA	TCTGGCCTCG	ACGTCACTCG	TCCACTCATC	420

	AGCTGCCTCC	TGTTCTGTAGA	CGAATGGGAA	GACACCTCTG	TGCAAGTGGC	AGTATCTGGC	480
	CGCTCCTTGG	TTTCTGGTCA	CCATAACGAT	TGGAACGTTT	GGCTTGTA CT	TGGAGACCAT	540
	CTGTGGTGTT	CACCCGAGGT	TGATACACGA	ANATGCCCTG	GCTTCTGCTC	GAANTNCCGC	600
	GAAAGCAGCA	CACAAGNCCC	CGAGGTTGAA	TTGGCTTGNT	CATTTCCTGA	GTCACCGTAT	660
5	TTGAACGTTT	GGAAGGCCTG	CNCCACNATC	AAAAATCTCGC	CAGNCNTAAA	CGTNAATGGT	720
	TGANACCCTG	GGGNTCCCCN	AAAAATAANA	TCNCCCGCCN	GAAAAGTTCC	ACTTCGAACN	780
	CCCCNGTNGT	CTGGTTTTGN	TGGTANCCCA	ACCG			

10 1275RP

	TGACTCGGCT	TCGTGAGGAA	CTGACGCTTT	TACTACATGT	AGATTGAAAC	CCGTTTTCTT	60
	GGATCGCCTC	GTCTCGTTGC	TTGGTATCTT	TGCCAATCCT	CCTGAGTGGA	CGCTGCCTGT	120
	AGAGGATCTT	CGCGATGGGC	CAAACACGCC	CCACCAGCCC	AAAGACGTTG	GAGAGAGGGC	180
	TGAAGAAGGT	TCATTGACCT	CCTTTATGGC	TTCAAATGCT	GACGGAAGTG	ACAAATCGTT	240
15	CCCAAGACGC	ATGTCCGACA	ATTCCTCTGAC	GGTGGACTCC	AAGACCTGGA	TGCGCTCTGC	300
	CCTGGTCTTT	GATATTCTAT	GGATAGTGGC	AATGTCCTTT	GAGAGTGTC	TGTTCTCGTT	360
	TGTGAGGTTT	AGGTTATCAA	GTGGGCAAT	AGCGAGCTGC	TCTGCAAGTT	GGTGGTTTTT	420
	TCCACCAGCT	GTGCTCTGT	GTGTTTCAGG	TCTGTCTATC	GTTTCTTTAA	GCCTCTCCTT	480
	ATCGGCCGAT	CGTCCACCTG	GACTGNTATN	TTTTTNCCAC	NCCCATNNNN	CCATAATTTG	540
	NTNAAGNAGG	TNCCCCNCCG	GAATTTNGNT	CCCGTTTCCA	NAGNTCGGNC	CGGGGATAAT	600
20	TTAAACNTTT	AAAAATTANC	CCCGGCCCTA	NTTCCTTTTN	CCNAATNNNN	GMNCCCCCN	660
	GNAANNTTTT	NCAANNCTTN	TGNNCCNTAN	CCTTTTTTNNC	CCCACGGTTT	TTNNTCCCCC	720
	CCCNCCCCN	ATTNNGGANT	TCCCCCNNTN	CCCC			

25 1275UP

	GATCGCCAC	ATTATGTCTC	AGGGTACTTT	GTACGTTAAG	AAGACCTGCC	GCTCGATGCT	60
	GCCTCAGAGC	ATCGTCGAGC	ACTACAACCT	GGACGTCTCT	ATTGTGATG	CCGACAAGAA	120
	CGAGGAGTTC	GAGAAGAAAGT	TCCCATTGAA	GCGCGCTCCA	GCGTTTTCTT	GTGCGGCTGG	180
	AAATCTAACT	GAGACCATGG	CCATCACCTA	TACTGTAAAG	TTGCCACCGA	CTACACACCG	240
	AAGCATGGAG	CCCTAGTGTG	ATGAGAAAAAC	CTTTCGAAAA	AACAGTTATC	CCTGTCTGAA	300
30	TGGGCATAAT	ATCTGGTTGC	ACATGTGTG	AGAGACCATA	CTCTGATTTA	GAGCTACATG	360
	CGAGGTTCCG	AGGAACACGT	ACTAACCAGG	CAACAGTGGT	CAACCTAATC	CAGGACGAGA	420
	AGGCCAAGGC	TGCTCTGCTT	GGCTCCACGC	TAGAGGAGCA	GGCACAGGTG	TTGCGCTGGG	480
	AGTCTTTGAC	CAACACCAAC	TTCATTGACG	ACGTTGGCTC	TGCCTCCTAT	ACCTAGAGAG	540
	GGTGTTGGTCC	CNTTNCACCA	ANNCNACATG	GAAAAACGNC	TTCCCNGNGG	CGAAACNTTN	600
	CCCNAGNGTT	TTNNAAAAAA	GAAATAACCN	CTTCCCTCCC	TTACCCCCCG	AAANTTTTNT	660
35	TTNCCGGGAN	NCCNTGNCNN	TNGGGGGGTT	GAACNNANTT	CCCCACANTT	NGGGGNGNNN	720
	NTGGGNCNG	GGCCCCCCCC	CCCNNNNANG	GTTACCCCTT	GGGTANCCCC	NNNTNAAAAA	780
	CNNCCNCCCC	CCCTTNGGTC	GGACCNAAAG	GGGGGGNCCC	CAAANGAAAA	AAAAAATAAA	840
	AA						

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1277RP

	GATCCGTCAC	GGACAGACTG	AATGGTCAAA	ATCAGGTCAA	TACACAGGCT	TGACAGACCT	60
	TCCGCTGACC	GAATATGGTG	TCGGCCAGAT	GCGGCGCACT	GGTGCTGCGA	TATTTAGCGC	120
5	AAAAATACATT	GATCCTGCGC	ACATAACATA	CGTATTTACT	TCTCCACGCC	AACGCGCGCG	180
	GAAGACTGTG	GACCTGGTTT	TGAAAAGCCT	CAGTGAAGAT	GAACGTGCAC	GCATCCAGGT	240
	GGTGGTTCGAC	GAGGACCTAC	GGGAGTGGGA	GTACGGTGAC	TACGAAGGTC	TGCTGACAAG	300
	CCAGATTATC	GAATTGCGTC	GTAGCCGTGG	CTTGGACTGC	AAGCGCCCAT	GGAATATATG	360
	GCGCGACGGC	TGCGAGAACG	GCGAGAGCAC	CCAGCAGGTG	GGCCTGAGGC	TATCACGAGT	420
	GATTGCCCGG	ATCCAGGCAT	TACACCGGCA	GCACCAAGCT	GAGGGACGGC	CGAGCGATAT	480
10	TCTGGTGTGTT	GCGCATGGCC	ATGCTCTCCG	TTATTTTCT	GCGCTCTGGA	TGAAGATGGG	540
	CGTCGAAGCG	CCGACGCCAG	ACTGCGCCAT	GCCCCTCGAGT	AACCGGAATG	ACGATCCGTG	600
	CCCTTGGTGC	GGCTGGAGCA	ATCCGTACCT	GCAGGACACC	CCACTTCTTG	CTAGACGCAG	660
	GTGGCATCGG	TGTGTTGTCC	TACCCCNEN	ATTTGAGACC	ANTCTACTCN	CCTGGCCNTT	720
	CNTTGCCCCC	CCGAGATCCC	CCCACGGTNA	GTCCCACCGA	AAATTTTAT	ATCTACAAGN	780
	GNGTCCCCC	ATGAATATAC	CNTATCTTCT	TAATCGTCCN	CN		

1277UP

	GCCGTCCTTC	TGCGGCCAGC	GCGAGTCCAG	GTGCCGCAGC	ACGCCCCACG	AGCGCGACCT	60
	GCGCAGGCGA	TAGTACGCGT	ATGCGACCAG	GCCCCGCCGC	AGCACGTTGC	TTGCGCCGAA	120
20	GAACCAAGAG	AACCGCGAGC	GGCTAACCA	CTGCACCAGC	TGTCCGTAAT	CGTGCCGCGAG	180
	CGCGTCCCCG	GACGCCAGCC	CCATGCGTGT	GCCCCACAGT	CCCAGCATCA	CGCCGCCCCC	240
	GCAGATCAGC	ACCGTCCCGA	CGCACGTAAG	CATACAAAAC	GGCTCTGCGA	GCAGCCAACA	300
	CGAAAACAG	CTGTTGAACA	GCAGTCCGCA	CGCCTGCAGC	GGGGCCAGCA	TCACCAAGTGG	360
	TAGCGTGGCA	ATCTGCATCG	TGCTTCCGAA	CACGTTCCGT	AGAAATGAATA	GCGTCAGACC	420
25	CATCTGCCAT	GGTAGCCATC	GGTACACCAC	CTGCACAGTT	CCCCGTGCCA	CTTGCAAGCCG	480
	AGCCTTGCGC	TGAAAGTACC	AGGCCCAAAA	GACTGCATAC	GCTTGAAACT	ACCGCCACCA	540
	CGACCCATAA	TAACCAAGTTG	ATCGACCATT	CGCTTGATA	CCCTGCACCC	TTCCGCTGCAG	600
	AGTACTCTAC	TGTGGGCGCC	TTTTGGCTCT	AGGTCTCTAC	GCTATGCCAA	ACATACTGGC	660
	TCCGGTGCCT	CATGTTTCGAT	GCTGTATGTC	ACGTGACCGA	TGACAGGGTA	CCTGTCCGTT	720
	CTCTTCCGGT	TCCAGGGNAT	GATACCGAAA	NCCGAAATTA	NCCGGATGAA	TTTCCCCGACC	780
30	CTGCGANTAC	GACNCCAACN	GGAGACGCNG	TTTTNTGT			

1278RP

	GATCTTCAAC	CTGCTTCCGC	CTATGAACAT	TCTGTTGTGA	TTGAGAGGCG	ATACCGCCTC	60
	CACCTTTCTT	CGAGCCTGCC	CGGTTTTGGT	AATCCATACG	TTCTTCCCCA	TTCTTTTGGT	120
35	ATTGGTATAA	GCGATGCAAA	TGAAAACAGC	CTCTTGAATA	CAAATCGACT	TGCCATCGTA	180
	TAAAATTATA	TTTTTATCAG	AAACTTGGCG	AGCATCAAGC	TCGGCTTCAT	TGATTCATAT	240
	ACTAAACAGA	ATACACTACA	TGCTACCGTC	CGAAAACGAA	TAATCTATTT	CCAATATATA	300
	TATATATATA	TATATATATA	TTATAGTTGT	ACTTTATAAA	TCTGAACTAG	GTCATACAAC	360
	TCTCAAATCA	AACGATATTT	ATTCTACATA	TAGCACGGGC	GACGCACCAA	TTGAAGACTC	420
40	TAGGGCGCCT	GAACCTTGGCG	CTGCCCTGTA	TCTTTAGCCT	GTTCTTTTAC	AGGGTCATAA	480
	ACATAGTACA	TACCGCGCTC	TAGTTTCGTA	TACTGGATGT	TCCTCTGTTT	CAGCTGCGGC	540
	CAATTTTCGT	GAGGGATATC	CCACCCACAT	TTCTGAGCTA	TGAAAGCTGC	AACGTCGTCG	600
	CACAGCCCCA	GTAACCTTAGG	TCAATTCCGG	TGCTTAACGG	GTCTCCTATG	ATAGTACTTG	660
	TGGTACGTGA	GCTGGACCNT	GTTTACATCN	CGGAAACTGC	GCNCCTTCAN	CTNTTCNATC	720
	ANCNCAATCG	CATNCANNTT	CTGGCNANTT	TTTTTGANTC	CATGACCCCC	CCNAAANTNT	780
45	TTCCGGTNG	ACCCACACCC	CCTTGAAATN	NCTGATNTGN	AGANGCNC		

1278UP

	GATCTTGGAT	GTACTGGGGG	CTCATACTTC	GGCTTCTGTT	TCTTGTCCTT	TTTGCCCTTC	60
	TGGCCCTTGC	CATACGTCGA	TGCTCCTTGG	CCCATCTTAG	AGATATCTGC	TGTGCCGCTA	120
50	TGGAGTAACG	CTTCTGCTTG	CGAACTCTAA	GTAGTGTTAT	CAACTTGTGT	GTATCATTTT	180
	TGCCACCTGG	AATCCATCAA	TTTCACCTAG	CCCAACCCAA	GCTGCGACCT	ATCAAAAAAC	240
	AGGAGCAGGA	AGCTGCCCTGA	AGAAGCGCTC	CAGGGGTCTA	CCGACGGGAA	AAACTACGAG	300
	ACTGGTGCT	ATGACATCCT	TCCCGGATC	CATCCCGAGT	TCAGTGCTTT	CGAGCTGTAC	360
55	AATTGCGTCC	GAGCGGTCCG	AGCGCAAGCG	TCGTGACAAC	ATCAACGACC	GTATCCAGGA	420

	GCTGCTCAAC	GTGATTCCAG	AGGAGTTCTT	CCAGGACTAC	TACCAGAAGA	AGAAGGACCA	480
	GGAGTCCGAG	AGCGGGACGC	CGGGCGCTCT	GCCCCAAAAC	AAGGGAACTG	GGACGCGCGA	540
	CGGCAAGCCC	AACAAAGGCA	GATTCTCACG	CAGGCCGTCG	AATATGTGAC	CTATCTGCAA	600
	ACCA GTGGAT	CTGCGCACCG	CGAAGAGGTG	GAGCTGATCC	TGAAGGTCAG	GAGCTGTGTC	660
5	GGCAGACGGG	CAGCATCGTG	AACGACGTGA	ACTAGAAACA	CCATTGCCGA	CTCGCGCTGG	720
	GAAATCGCGT	TGGGCNCTGC	AGCGTGCTCC	GGAATTNTGC	GGCCNCAGGG	CAGCACACCC	780
	NGGCAGCACA	CCGCCCCAGA	CCACACACTC	ATTTGGGTCC	CATTCCGACG	CNTAGATTTT	840
	CNCTTGGNCT	GTTTT					
10							
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1279RP

	GATCCTTCTG	GATGCTGGTA	GCTCCGATGA	GGAAGTCGTA	CTTTTGGTAA	TGTCACGCT	60
	GCTTAAGCAT	CTACTTTCAA	AGCGTGATAT	ACAGAGAGCG	TTTGCTAAAA	GTGGTGGATA	120
5	TACGTTACTG	TTCTCCATAT	TAAAAGATAT	CCAATCCGGG	CTTACAGGAA	AAGTCACGAA	180
	TCTATTGTGC	ACCTATGCGT	TTGGAAATCA	TATTGTCCCA	ACACACAGCG	AAAGCACGTC	240
	CCTTCTTATT	AGACCGCAAG	GCGATGGGCT	ACAAAGGATA	GTTTTCGAAC	TTCATTATTT	300
	GGCAATTGCA	TTGTTAGAGA	TAGCGGTGAT	AAAAAGCCCA	AAGGAGGATC	AACAAGAGTT	360
	GAGTAAAAAC	ATTATTACGT	ATATCAACGA	GTTGGCGTTA	CTTCATAGTA	CTCACTCTCG	420
	AATATCGCTT	TTTGATCCAA	GCGTATGCCA	ACTTCATGAG	AGATTGTTAA	CTTTGTATT	480
10	AACTTTGACA	GATCCCAAA	ATCAGGGTTT	CTATATACAG	GCTATTCTGG	ACATTGAACT	540
	TCTATTGAGT	AACAACATAT	CTTTCACCTA	AAGAATGATG	ATCCACCACC	TTTTTCGAACT	600
	ACTTGCAAAA	TATTTTGGTA	ATGAAAGGGA	CATCCGATTA	GTCTTAGCAG	ATTACAGTTA	660
	GTAACAAAGG	TCCAATTATA	TTGAGACCAC	TATATTNTAA	AATTGTCCCC	NTGTTATTGA	720
	AAACTTNTGC	CCNGGGTACA	CTTATTGCTN	TTCNACACCG	TCCTGNAAAA	ANTGTGNTTT	780
	GTTACGATTA	ACTCGTTTCC	TTGATTGAGC	AACTTTTGNT	TTTTATCATA	G	

1279UP

	GATCAAGAGT	ACAGTTGATG	AAAAGGAGTT	CCATGATGAA	ATATGTAAGA	TGGACTTGCT	60
	TAAGAAATTG	ATAATATAAA	AGGCTACGAG	CTTCAATATT	ATAATACGCA	TTGCATAATT	120
20	TATTACATA	AATTGATATA	GGTATATTTT	TCTTCGAAGA	ATTAATTCTA	ATCATTTCCTA	180
	TGTGAAGATA	TGCCCCCTCG	TGTTACCTGC	GGATATTTTC	ACTCTTAGTA	TATCTACATA	240
	TTTGGCGGAG	CCATTATTTA	AACTCGCCAG	CTTGACTCTG	GACCCAAGAG	CCGTAATGGC	300
	AGCAGCTCTT	CCTGAGCGCA	ATTTCTTCAA	GCAATTGAGG	CACCATGTGC	CGTTCCTTAA	360
	TTCAAGACAC	TATAAACAGA	CCGTCCCGTC	AATAAACCCCT	AGCACAATTA	TATCCTTTTC	420
	TTTCCAATCA	ATGTGCCGAT	ACCTGCCACAT	TTCTTGAGAT	GCAAAGTTAA	CAAAGCTTAT	480
25	AGCAGTGATA	TCTTGCGTTA	GAGACATGCT	TGCAAAATTC	GAACCGTTGA	GGTCATAAAC	540
	ATGAACGTTA	TTTGAGAATA	TCAACCACCC	ATTAAATGAA	CTGTACCTGT	TTGAAACCGC	600
	AATGCACCTG	NNTNNCTNGA	AATATTCCNC	AACCCNCCCT	TAAAAGNGTC	CCCCTTTATT	660
	NNGNCCTNGC	TATTCCCAAA	AACNTACCCG	NNTCNMTGTG	NCNCCAAGGN	NTTTTNNCNT	720
	TNTTGGCAGC	CTTTTAGAGN	TTTAAANATN	TTCCAANCCC	CAAATCCANT	TTTTAAAGGN	780
30	CTCCCCTNAA	AANNTCNTGA	ATGANACAGN	GAATTCGTTT	GCCNTTTAAC	TTCCAGTNA	840
	G						

1280RP

	GATCATCAGA	CCTGTCCGGAG	GGTTCCGTA	TGGAACCTCT	TCGTAGGGGG	GAGCCGCTGT	60
	TGTGAGCCTT	GAGCCGCTCT	GGAGACGGCG	GCCTCGAGTG	AAACGGAGCT	CGTATCGGGG	120
	ATCGCGAGAT	GACTTGGGGC	GACCTTAATG	CAATTTTCTT	CTCGAAGGAC	TTTGTGGGGA	180
	CGGAGGAAAG	TCTTTCAAAT	ATTGACGCAG	AGCGGCCCTT	TGAGATTTGG	CTCTGGAAAG	240
	ACGGTCTTTC	CAAGGCCGCC	GGCAGCTTTT	CTCCCGTGCT	TGCAGCGCTT	GCCGCAGGTG	300
	CAAGCACGGC	CGCCTTCGCA	AGAACGGGAC	TCTGCTTCAG	TAGGCTTGTC	TTGGTCATCA	360
40	TCGGCTGCAC	CACCAGCGGA	TCTTTGTTTC	GCAGCGGCAC	AAACATGTTG	GACCGCCGGA	420
	GGGTGCGGTC	ACGGCTCGGC	GGAAATCACGG	CTGCCGTCCG	AAACGTGAAC	GTGTTCTCGG	480
	GGCTCTTTCGA	CATCGAAACC	TTGCTCTCGT	TGATGCGACT	TCTCCGAGTC	CACCTCTCTG	540
	ACCGTCGTCT	GCTCCCGCTC	CTGCGTGCGC	TCCGGCTCCN	GNCNCNCNGT	TCCTGCCTCC	600
	CTGACTNTTC	CCCCCCTTTT	AGGGGAACAC	GGGAAGAAAA	NAANTNCCCT	TTCTNNCCCG	660
	GCCCCCTTGTG	TCGCCCCCN	NNNNCCCCCN	CCCTNNNNNN	NNNNNNNNNN	NNCCNNNNNN	720
	NNNNNAAAAAT	NTAGGGGNGG	GAAAAATGNG	GTTAGNGTCC	CCCACCNGAA	CCCCAAAAAA	780
45	AACCNCCCAT	GTNTCCAGGG	NCTTNATGAN	CANCTTCNCN	NTGGGA		

1280UP

	GATCATAATG	CGACTATCGC	CCATAAGCAG	GGCAATACGC	CTATCCACAT	CAAAGTCCCT	60
	GACCGTTCCA	TTCTCCGCGA	CCGTGACGTG	CCTGTGTACA	AAGGCTCAGC	GCTCCAGGCG	120
	CGCGATGTCA	TCCCGTATCA	CGAACTATCA	AACCTCGAAT	ATTTCACTGT	GAATCCCTGGT	180
	GAAACACTAA	CACCTTCTGT	GTATGAACCG	GAGTTAAACA	TCCAAGGCAA	CATTGTCCGAG	240
	GGGCGGCAGA	TTACCAATTT	AACCTCAGGG	GTACCAGGCG	ATGTCCCGAT	TTCTATTCTA	300
55	GACGGGAACA	ACTATACCCA	CTGGCAGCCG	TTCCGACAA	CTGAGAGGGC	ACTCTTGTGT	360

	ATTGATTTGG	GTTCCGAAGA	GGAGTACGAG	ATCACAACGG	GTTAAAAATTT	TGTGGGGCGC	420
	TCGTCCCGCG	AAGAACTTCT	CCATCTCTAT	TCTCCCCAAC	TCAAAGCACA	TCACAGAGAT	480
	ATTGACAAAA	CTGACGGCCA	TGATGGACGG	CCGGAATACG	GACTTGTCTC	CTGCTCAAAG	540
	TGCCACGCCG	TCTCTTCCTC	GCAGCATCTG	CTCGGCGGGC	TGGCGAATGT	CACCGATTCC	600
5	AGGGAACTCG	CGGCCATTGA	TGAAAACGTG	GANN TGTTTT	TAAAAAATTT	CNGTTGGACT	660
	TTCANCTCCN	NCNNTTCACN	TTTCCCNAGG	CGCCAATNCN	GANCTCCTNA	GGCCCTGNAA	720
	CACCATTNAN	CNTCGACCTA	CTCAAAAAGTN	TTCTATCCCC	CAATNTCNTT	TCCAACACAA	780
	CGATCTGCTA	ATTGNGCGNC	CAACCATCAC	TTNNTGCATC	ATTTTGCCAC	AACAATGNGA	840
10							
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1281RP

	GATCCGACGT	TCAGTGGACT	CTTCCCATT	AAGGTTTTCA	ACAAATTCCA	AACTCATGTG	60
	TTTAATGCCT	TGTACCATAC	CGATGAAAA	GTATTTATTG	GAGCTTGTA	GGGCTCGGGT	120
5	AAAACATGCA	TGGCAGAATT	AGCTTTATTG	AGTCACTGGA	GAGATGGTAA	GGGACGTGCC	180
	GTCTATATAT	GTCCATCTCA	GGAGAAAAAT	GATTTTCTGG	TGAAGGATTG	GCGAAACAGA	240
	TTTTTAAATG	TGGCAGGTGG	AAAGGTTATT	AATAAACTCA	CATTGGAATT	AACTAACAA	300
	CTTCGAACGC	TAGCCCAGTC	GCATTTAATC	TTAGCGACTC	CAGAGCAGTT	TGACCTGCTT	360
	TCTCGTGCCT	GGAAAAGAAG	AAAAAACATT	CAGACATTAG	AGCTGTTGAT	TCTAGATGAT	420
	CTTCATATGA	TCAGTAGTGA	CTTGCCCTGGC	GCAAGGTATG	AAAAATATA	ATCCAGAATG	480
10	CTGTTCAATC	GGGGTCAACT	TGAAACGGCC	TTGCGTATAG	TGGGTTTATC	TACCTCCCTC	540
	GCTAATGGTC	GCGACTTTGG	AGAGTTGGCT	CCGAGCTAAA	AAGCTACATT	TTTATTTCTC	600
	CTTTACAGAA	GGGTTATGCC	CTTACAGATC	CNCTTACATC	CGTTCCCTAGA	NGCATGAAAN	660
	TCTTTAATTG	AACTATGGCC	AATCGCTTCC	TGACGNACAA	CTCTGTGATA	CTGCCANTNT	720
	TANCTTTTGT	TCCATTAGAA	ATGTTTCAAT	TCTGTCTNCTG	CACGCCGCGC	GGANGAAATC	780
	CTGGTCNCCN	ATTAGTTGGA	ACCATTCTAG	GNNAAAAGAC	TCTTATCCTA	ACN	

1281UP

	GATCTGAACG	TATGAGAGCG	GGTTTTTACT	AATTATAGAA	CCATATGAGA	TAGAAAATGC	60
	GGCAGTTCCA	AATCCAATAA	TGCGATTAC	GTGCCCTGAT	GCCTCCATTG	CAATCAAACC	120
20	AGTGTTTGAG	AAGTPTTCGT	CAGTTATTAT	TACATCGGGG	ACCATTTCTC	CGCTTGACAT	180
	GTACCCCTCGA	ATGCTGAATT	TTGAGACAGT	TCTTCAAAAA	TCTTACTCCA	TGACGCTGGC	240
	GCAGAAGTCC	TTCCCTCCCA	TGATTATAAC	CAAGGGGTCA	GACCAGGTAG	CCATCTCTTC	300
	TCCGTTTGTG	ATCAGGAATG	ATCCCTCAAT	TGTCAGGAAT	TATGGTTCCA	TATTGGTTGA	360
	ATTTGCCAAG	ATTACTCTCG	ATGGTATGGT	AGTGTTCTTC	CCCTCATATT	TATATATGGA	420
	ATCCATTATT	TCAACTTGGC	AGACAATGGG	GATCTAGACG	AGGTTTGGAA	ATACAAGCTC	480
25	ATCCCTCGTG	GAAACACCAG	ACGCCACAGG	AAACCTCCTC	TACCTTTAAA	AACTNACCNA	540
	AGGCCNGCCC	NNAATGGGNC	GGGCCANTTA	ATTTCTNGTG	CCGNGGGAAA	ATTCTNAGGA	600
	ATGGATTING	ACNCCCTCGG	NGGGAGTGTT	TGAAAATGGA	TCCCTCCCTT	NACCGANAAC	660
	GTTTNTTTAG	GGAGGGTTNT	NTCCNTNANA	AAANATCCAA	ACCGGGAATA	CTTTTCTCCT	720
	NNAGCATGAA	NCCCCCCCCC	TTTGGGAAAA	TTCAGGGGTG	AGGAANATAT	GGTTAATGTN	780
	CCCCCANCN	GNNNCCNNA	AAAAANCACT	CCCAATGTCC	CAGGNCCTTN	NGNACCACCT	840
30	CTNNNNATTG	GAT					

1282RP

	GATCCGGAAT	TATAGAATCG	ATGAGCATT	CATTTAGCAA	CCTTCTTCCA	ATTGCTAATG	60
35	GTTTCATATAT	AAACTCCCTA	GCTTCTCTT	GATAAATCCT	TTCAAGAACA	GCACCGTCGC	120
	AGTCTGGGTT	TATCTTTATA	TTATTTCTTG	TTATGCAACT	CGCATGGTCT	ATGAGGTCCC	180
	TACATACATT	TAGGTGCGCC	ATCAGTACCA	CCCTCTTCCC	CAGATTCTCT	ATGTTCTCTA	240
	CACGTTTGAA	TAGAGTTTTC	AGGAAACGCA	GCCTAAAAAC	TTCACTCTCC	TCAGTGTTC	300
	TAGAATTAGC	AGGGCAGTAT	ACGGAAATGA	CCACCACCTT	ACAGGCCAAT	TGACTAGAA	360
	GGCATCTCCC	CTCACTGTCT	AGTTCTCTGT	CATTAGCATC	ACTCCCATAG	GGCAAGCCAT	420
40	CATAACCACC	AATACCAATG	GTCCGGTCTT	CGCAATATGC	TACCAAGGCG	CCATCTTTT	480
	TTAATTTTTT	AGTCTGCCTG	TAATACCTCC	TCCCGCCTTC	AATACTTGTA	ATGATTATCG	540
	CAACGATCGG	CTGCTTCAGG	GATTCTGTTC	CACNCCACN	CCNATACCCT	TCTCCTGN	

1282UP

	GATCTGCGCA	AACACCCCCA	CTCTGTGTAC	CTCCTCGATG	CTGTCAATCG	AGTCCTTGTC	60
45	CATGCTTCTA	TCCTTCAGCA	GGAACGCGCC	TAGGTACGGG	ATGTTCCGCC	GCAGCAGCCC	120
	GCAGATAGCT	TCGATGACCG	CGGGGTGCTA	CACGGTCACC	GACTTGTAAG	ACCCGGGGAA	180
	GAGCGGCCGG	TTGCTCATCG	GTAGCACCAT	CAGCTCCTCG	TACTTGCGCG	GCACCTCGCC	240
	CTCGCTCGGC	GGGTTTCGAC	GGCCGCCGCC	GCCCCCGGAA	GACGCCGAAC	CGCCGCTGCC	300
50	CCGCGAAGAA	CTAGCCTCCG	ACGACCGATT	CGCTGTCTCT	TCCCGTGGCT	GCCGCTCCGC	360
	CTCTCTGTCG	CGCACCGCTT	CCTCGTCGCG	CCCCCTCTCC	GCGCGCGGCG	GCACCTTTTT	420
	GTCGTCGCTC	TGGTCCGGCT	CCCCGGTCTT	GCTTCAAGTAT	GCAACTGCCC	GCCGCGTGTA	480
	TCCCCGACTG	CTGCCGCAAG	GCCACTCTTT	TTGGGGGGGG	GGGGGGNNNG	NNNNCCCCNC	540
	CCCCCGCCGG	GCGGCGTTGN	CCGCCCGCGC	CCGTTTGTGC	TNTTCACGCC	GGCGCNTTGG	600

CCATCCCCC CTNNTTTTTC CT

1283RP

	GATCAGGAAA	TCGACGGGAC	TGGCTGATTG	TCTTTATAGT	CAAGCATATT	AAACACACGT	60
	GACTTAAACT	AGATTTACAC	GTGACATGCA	ATTGTGTCGT	TTCTTTTMTA	TTTGAAAAAC	120
5	CTGCATCGAG	CTATTAGATG	CTCATCGACA	CTAGTGACAA	AACCAGTCAA	GGCTTAAAAAG	180
	CTCTGCAGCA	TGGACCAAGTC	GAATAAGGAG	CATCGTCCTA	AAAAGGAGAA	GGCGACAGCT	240
	AAAAAGAAGC	TGCACCTCCA	GGGCCACAAT	GCGAAGGCAT	TCCGCGGTGGC	CGCTCCGGGA	300
	AAGATGGCCA	AGCAGATGCA	GCGCAGCAGC	GATAAGCGGG	AGCGCGCGCT	GCACGTTCCG	360
	ATGGTGGACC	GGACGCCGGA	CGACGACCCG	CCGCCACTCA	TTGTTGCCGT	TGTAGGTCCC	420
	CCGGGGACGG	GTAAGACAAC	NCTGATCAAT	CGCTGGTGGC	GCGGTGACC	AAGACGACCC	480
10	TCGGCGAGAT	TAACGGTCCG	ATCACGGTCCG	TCTCCGGCAA	GCGCCGCCGT	CTGACGTTCA	540
	TTGAGACGCC	CGCGGACGAT	CTGAACTCCG	ATGTGGACAT	TGCGAAGGTT	GCAGATTTCG	600
	TGCTGCTGCT	GATGGACGGT	ACTTTGGTTC	GAGATGAGAC	ATGAGTTCCC	TGACCTGGCN	660
	CACNCCACGG	ATNCCCTTTT	NCTGGATTAC	AANCNCNCAT	TTTTCATTNC	NAGGCCNCTC	720
	CNGCTCNAAA	ACTTTTNACC	TCGTTCTGAC	NATTTTNCCN	GGGGNNCMT	CCCCTTCGTN	780
	TTTTTTATGN	NGNNCCNT					

1283UP

	GATCCGCTGG	CCCATCGCCG	AGAGCTATGT	GCATCGCCTC	ATAGTGGCCT	TGATACGTGT	60
20	CTCAACCAAG	ATTGTGGAAG	ACACCGTGCA	CTCCACGAG	TATTTTCAGCA	AGGTCTGCGG	120
	CATATCGAAG	AAGCTCTTGA	TGCGCCTCGA	GCTAGCCCTC	ATACTCGTCC	TCCGCGGCGA	180
	GGGTTTGATG	GTCACGGCTG	CAGCTCTAAA	CGCTGCCCTA	AACGCACGTG	CTCGGCTTCG	240
	CGAGCAGTCT	GCGCTGCCAG	CCGCTGCTGC	TCAGTGATAA	TCGCCACTTC	TAGGCCACACA	300
	ATTCGGTTAT	TTAATAAGCA	ATAAATACTC	CAACACTAAT	AGTATACACC	GTTTTCGAGA	360
	GTAAGCACGC	AGCAGGAGGT	GGCAGCTTTT	CTGGTACCAC	CTCAAAGCCCC	TTGCCATTGC	420
25	TGCCTATCTG	GTTTAGGCAT	GAGCAACCTT	AGTCAGTTTC	GAACCCGTGA	TATATGTTTC	480
	GAACACGTTA	CCTTTTCGGT	GAAAAAGAAA	AGCCTAAAGG	CGAAATGTTT	TCCATGTTAA	540
	CACAGCAGAT	TAGAGGTACC	TTGTACTGGA	TATTCGTAG	GATCACGGGC	TACGAGCATT	600
	CATCCAGAAG	CTTTGAACTT	ANGGTGTTTC	NGGATGGCAG	TTNGGGACTT	ATNCCGTGNN	660
	TNTAAANAA	TACTTCGTCC	TAGTCTTTGG	AACAAACNTG	CATTTGTTGT	TCTTNGTTTG	720
	GANNATCGGN	AAGACANCCT	TTGCCCTGCT	AANAAGACNG	TTGGGAACNG	NNGCCNNTGN	780
30	CCCNCTCCGA	GNCNNGAACN	GGCCCCNTTN	CNNTTCNNCN	GGGGNNNNC		

1284RP

	GATCGATCTG	GTCAGGTCTA	TTTGTGGCAC	CGATGACAAA	AACATTTTTC	TTTGCAATCA	60
35	TACCATCCAT	TTCAGTTAAC	AATTGGTTAA	CGACTCTATC	AGAGGGCGCCA	CCAGCATCAC	120
	CCATTGAGCC	ACCTCTAGCC	TTTGCAATGG	AATCTAGTTC	ATCCAAAAAG	ACAACGGTTG	180
	CGCTGCGCG	TCTAGCTTTA	TCAAAAATAT	CACGAATGTT	GGACTCAGAC	TCACCATACC	240
	ACATGCTTAG	CAACTCTGGA	CCCTTCACAG	AAATGAAATT	AGCAGATACT	TCAGTTGCGA	300
	CTGCCTTTGC	CAACAACGTC	TTACCAGTAC	CTGGAGGACC	GTAACAACAAC	ACACCTTTTCG	360
	ATGGCGATAG	ACCAAACTTA	ATGTATTGGT	CAGGATGCAA	GACGGGATAC	TCAACGGTTT	420
40	CCTTCAACTC	CCGCTTTATG	TCATCCAACC	CACCAACATC	GTCCCAAGTA	ACGTTAACCG	480
	ATTCAACCAC	GGTTTCACGT	AGCGCGGATG	GATTGGAGTT	CCCAAGTGCG	AATCTAAAGT	540
	TATCCATTGT	AACCTCCTAAG	GAATCCAAGC	ACTTCAGCGT	CGATTTTCATC	CCTCGTCCCA	600
	ATCAATTAGA	CTCATCTTCT	CTCTAATCTG	TTGCATTGCA	GCCTCTGAAC	ACAAAGAGGC	660
	ATATCAGCAC	CCACATACCA	TGGTTTCAGC	AGCTAGCACT	TCCAATCACG	TCATCAGCCA	720
45	TCTCANTTCT	TGNTGTGGAT	GTTTAAATTC	CCACCCTCCA	GTGCTCTGGA	NACCANTTTA	780
	TTNNGTCAA	TTTACCAACT	TTTAGNCGGN	TNNATGG			

1284UP

	GATCAAGCTG	ATATGTATTG	TCGGGCTACT	GGTCGTATCC	GTGGTAATCT	TCTTCGGCGG	60
50	CGCTCCCAAC	CACGACCGTA	CTGGCTTCCG	CTACTGGAAG	AACCCGGGGC	CCTTTTCGAT	120
	GAGCCTCGCG	CCAGGAAGCA	CGGGCCGTTT	CTTGGACGTG	TGGCGCGCCG	TGATCAAGTC	180
	GGCCTTCGCG	TTTATCCTAT	CACCAGAACT	TATAGGCATT	GCATGCGTCG	AGGCGCAGGA	240
	CACCCGGCGG	AACACTGAGA	AGGCATCGAG	ACGTTTTCATA	TACCGTATTA	TCTTTTCTTA	300
	TGTGAGCTGC	GCGCTCATGA	TCGGCGTCAT	CTTATCAAGA	ACTGATCCGA	AACTCATAGA	360
55	GGCGCTGGAG	ACAGGCGCGC	CAGGCGCTGC	CTCTTCTCCG	TTGCTGACAG	GGATTGCCAA	420

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	CGCAGGGATT	CCCGTGCTCG	ACCACGTCAT	CAACGTCGCG	ATCTTGTCCTT	CTGCGTGGTC	480
	GGCAGGCAAC	TCCATCATGT	ATGCATCCAC	GCGCATGGTG	CTAGCGCTTG	CGCGCGAGGG	540
	AAATGCGCCA	AAGTTCCCTCA	CCAAGATCAA	CAGATATGTG	TGCCCTACAA	CGCGGTCAATC	600
5	GTCTGCACGC	TCGTGCGCTG	TCTTGCCTAC	CTGAACGTCA	AGACGACTCC	GCAATGTGTT	660
	CCAGTGGCTG	TCGAACATAT	GCACCATCTC	CGCTTCATCC	GCTTGTTCGC	CATGGCTCCC	720
	TTATATCCGT	TCCCNCGCGT	TCTTTTCACA	CTCCNANCCN	TNCCCTNCCA	GTTCCCTGCA	780
	CCNTTTCNCC	ACTATTCNT	TNTAATGTMT	CTTTTTNGAC	AATGTTCCCT	C	

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1285RP

	GATCCGGGTC	CGCCACAAGC	TGCTGGTCCA	CATCGTGCTG	CTGCGCGGCC	CCCCGACGC	60
	GCCCCGAAAG	AAAACCGAAA	TCAAGGCCAG	CATTCCGGTT	ATGCTCTACA	TATCGCCGCT	120
5	CGTACCTGTG	CAGGGCCGCA	CCGTCTGGT	TGATAACGCT	GGCCGCTTCC	ACATCCGTCC	180
	CGGCGTGCTG	ACAGACCTAT	TCCGGACGCG	GAGCGCGGAC	TCACTTCCGA	GCTGGGACGC	240
	GCCGCCGTCC	TACGAGTCGC	GCGTGACGA	TCCGCTGTAC	GATGGCGACG	TAGGCTCGCT	300
	TGCTTCCGGC	AGGGGGGCCC	CGCCCGATTG	GGCGGCGCCC	CGCCCCCGCG	CCCGAGATTC	360
	GCCACTGGGT	CTCCTTCGCG	CCCTTCACGC	CTTGTGCTTG	GATGATCTAA	GCAGGGTCCC	420
	CACGTACCAA	CAGCAGCACG	ATGGACACTC	CCTGCCATTG	CATCACCTCT	CCCCGGCGTA	480
10	TGCCGCCACC	GCGCCACCG	CCGGGGGGCA	ACAGCGCACN	TGACAATCAC	TTNTGCGGTC	540
	CGTCGCGGCC	CCCCGGACCC	CCTTGCGCCC	TTATTCTGCC	CCCCCCAAAC	CNACCNTGCN	600
	CCCAATAGGG	TCAAACCGCG	GNGTGGNAA	TTTNCCTGNT	CNGNNNNCNG	NNCNGGTTT	660
	GGGCCCCCCC	GGTTNCCCCC	CNNANTTNGC	CCAANCGGAA	NCCGGGGAGG	GTNNNGTGN	720
	NNCNGTAAAA	ACTTNTACCC	CCCCNCTTTG	GGTNCNNGGC	CGNGGGGTTT	TTTTTTTCCC	780
	CGGGGNGCCC	CCCCCNNGGG	ACCNTTNGGG	NACNATT			

1285UP

	GATCTTCTTC	ATGACGCTAC	TGTAGACAGT	TTCACAACCG	ATAGCCTGAA	GACACAGTAC	60
	AACCAGAGCA	AAAGATATCA	ACTGTTTCGG	ATTCCGTATT	CGGAGCATTG	CAGCTTTAAG	120
20	GACCTAAGTA	TTTTCGCAAC	CACGATCCAG	ATGAACGCCA	TTCGATCTAC	AGTGAACCTG	180
	GCCTCTTTGG	AGATGCATCG	CATGTGGTTT	GACACTTGGT	CTCGTATTAG	AAACGAAAAA	240
	TACCTGCGTA	AATTATGATT	ACATGTTATA	TATAGTAAAA	GATAACACGC	CACTCAGTGT	300
	TAAATGGTCC	ATCATGCCTC	TAGGACTCGT	TGTCGTTGCT	CGACAGAACT	GCAGTCCCCA	360
	TTTGCTGGT	AGGTTTGTG	GAGGCTTTTT	TCTAATTGTC	TAATTTAAAG	TCCTGAATAT	420
	TATCTTCCAA	TTGTGGAATG	AAAGACACAT	TGACCACTAG	AGGTTTCAGC	CGATGGCTGC	480
25	AAAACGGCAT	ATTTGTCATC	CAAATCATGC	CGCTGGTCCA	ACAGTTTAAT	AATGTCTCTG	540
	GAACCTCGAC	TACGTCCGGA	ACTCGTCTAT	CATCTGGAAT	ACCNCCTCCT	GTATGTCNTT	600
	ACCATANTCC	CCTCCCTTGG	TGGCCNAATT	CTTAANCAAT	TTTTGNTTAA	ATNCCCCCNT	660
	GCTTNNCTAA	GGTNAATTCC	NNTTGGCCCC	CCCCCTCGGG	TTTNTCCGTT	CTTTGGAATG	720
	GAGGAAGCCC	AGGCTTGNCC	CCCAATACNC	GCCCTCCGGG	AAGNGTCCCT	CTTNGCCTTN	780
	CCANTGGGN	TNCTTGGGTT	NGNNGCAAAN	CNACNNCNGG	CCCTCCTNCN	C	

1286RP

	GATCGCACCT	ATAATGAAGA	CCGGTTTTTT	TTTATGAGAA	ATAGCAGCCC	TCCAGGGGTT	60
	ACTTATTAAA	TAGCTACAGT	AAGATTAGGT	TATTCGTTTG	CAAAATTCATT	GGTAGATCAA	120
35	CTTGTAACCT	TCAAATAATG	CTTCGCTGGC	ACCGTCATAA	AACATGTTAT	GCCCCGTGTT	180
	GACAACTACT	CTGAAGCTAT	AGTCAGGGTA	GTGCGTGGCA	TTAGCTGGAC	ACACCTTATC	240
	TTCAGTGCCG	ACCAAGACAT	GCCCTGTGCA	CCCGCTGTGC	AGCAAAGGTG	GGCCGTTAAT	300
	TAGGTCTTGC	CAGCCTAGAA	GATACTCAGT	GATGGATTG	GTCGAAACTG	CTACACCGTC	360
	GTAGAAGTGA	TTTAGCTTCC	TGTACTTGTT	CCCCATGTTG	GAGAAAAAGA	ACTTAATTCC	420
40	GGAGCTGTTT	AACCCTTCAT	CTGGTCGAAA	TTGGTCTTTA	TGAATTTGAG	AAGCATGATC	480
	AAGAAGGGCT	TGAAGAATGT	TAGTGAAAGG	TTTAGATATG	GCTCGACGAT	ATCCAACCTT	540
	GATTTGAGAG	TTCTAGGTGG	CGGCGGCGCC	AATAGAATGA	TCTTTCTGCG	TTCAATTGTT	600
	GACGCCGTAT	CCTGAAGGCT	AATGCCAAGC	CAAATGCACC	CCATCNATG	CCCAAAACTC	660
	CCACNGACAT	TATTATGGTT	GGCNCGTAGA	CCATGAATCT	AAACCCCTTA	TCACNCACCC	720
	CCCCACANG	GTTACCATCG	CCCATGTCCC	TTCCCCANCC	TGAGNTCNAC	CCCATTTNTCC	780
	CCCTATTTNC	CACATATCNT	CC				

1286UP

	GATCTTCGCA	GCCAGCGCGT	AGTCCACCGG	CGTCAGTCCC	TCGCAGAACG	CCCCGCCGTG	60
	CACGTACAGC	ACCACCGGGT	CGTCTGGGTG	CCGCTTGTCG	GGCCGCGACA	CATACACCGC	120
50	GCGCGCAGTC	CGCTCCGCGG	CCGACGCGCG	CGGCCCCCGG	AGCTCGAACA	GGTCGCTATC	180
	CTGCACAACG	TACGTCTCCT	CCAGCACCTC	GCCGCCGCGC	TCGAACGACC	GCCGCGCTGT	240
	CCACCACGGC	ACGCACGTCC	CGACCGACGC	CCGCAGCGCG	GCCGCCGCGG	CCGGGTCCGC	300
	GTGCCGCGCG	GCCTCTACGC	CCAGCAGTCC	CAGCAGCGTG	CGCCGCCCGG	CGCGCCGCAC	360
	CACCGAGTAT	ACCAGGCGCG	CCAGCGCTGC	CGGCACGCCC	AACCCATAGA	ACTTCAGCAG	420

	AAACGCGAGT	ACGCTCCACG	TTTTGTTTGG	AGATCCCATG	ATGCCGGCCC	GAGGGACGTC	480
	GACGCCCCGCC	ACCTGACGGG	GCGGCTACTT	ATACACCACA	AGATTCTATA	GAAAAGGAAT	540
	GCGACCAACG	ACGAACGGTG	TATCGTTTGG	GAAAAAAAGG	AGTCCCCCAA	CTAAAGCTTG	600
5	CTTGCTGGCT	ACGAGTTTGT	GTTTCAGGTT	TCTTCATAGC	ATCCCAGTTG	TTTTGTTTGT	660
	TTGGCAAATC	GCATATGAAC	CATAAANAT	CAAANNITGT	ACAATTGCTG	CCGACCGTTG	720
	CCCCATCCNC	CGGCGAAANA	TCCAGAAATC	GAGANAATTT	CAGACGCCGG	GTTTGCCAAA	780
	NTCCCGAAAC	CCCAAANTCC	CAACATTCTT	GNCACATTTG	ATTCTGNNNC	NNNCA	

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1287RP

	GATCCCACTG	GTATTAGGTG	TCTGAACACG	GCCAAATAAA	ATACGCAAAA	TGAAGGGCAT	60
5	TAATAATCTT	TCATCAGTGT	TGACAATAAC	CCTTGACTCA	TTCTGAGCAA	ATAACTTTGT	120
	TACTTCGTCG	TTGAATAACG	TGTCATCTAA	TAAGTTCTTC	AGATTGTCCC	TATATTTTAC	180
	AGCTACTGGA	TCCTTGTAAG	CTAACAACGC	ATCTAGGGCC	AGTTTCTGCA	CTTCCAGCGT	240
	TCGACTACCC	AATAATTCCA	TCAACCTTTG	GCGGACATCT	TCGGATTGTG	AAATAGCTTT	300
	GATATTCTTG	AACCTGCCCC	ATAATTTCAA	AATTAGATTG	CTATCCGTCT	CAGACCATGT	360
	ATCCGCAGAG	TGCACTGCTA	ACTCACCCAG	ATGGTCTTCA	TCTTGGTTGG	CATCGAATG	420
10	ATCATTGCGT	TTTAAGACAA	AAGGTACAAT	GAATCTGCTA	TTTTTGCTCC	GCGAGCTGTN	480
	GCAGCGCGAT	TAATATCTTC	AATGCTTGTG	TCTAATCATA	CCGGATATCC	GAGTGAACCG	540
	CGANCCCCCT	TAAGGTMTTC	CAACCAAGGA	TTTTTCGAAA	NCAACATNCN	TTTNGAACNT	600
	TCCNAANNCA	AATAATTNAT	CCTAAAAAAT	TTNTGCCCN	NTCCAAAAAN	TCCCCNAGGG	660
	GTNNAAAGAG	TGGCCCCCAA	TTCNAAATNA	GNNTTTTTTN	GGGNTTTTNC	NAAAAAAAAT	720
	CCCNCCCNAC	CNCGNNTTTA	ANAAATTTTTG	GGAANCCCAT	TCCCCCCCCA	AGGGGAAAAA	780
15	AGNGTGNNCC	CNATTTTNA					

1287UP

	GATCAGGTGG	TGTTGGCCGA	TACCGTGACG	GAAATGGATG	TCCTGGCCAT	GCCCGAGATA	60
20	GATTTCTCTG	ACACAACGTC	CTCCTCGAAG	GGCCTGATGC	GGCGAGAGCG	CTCAATGGAG	120
	AGGCACGTAC	AGGGCGCGAA	CACGGTCACA	GACCCATGGG	ACATGTCTTT	GGAAGTGGGG	180
	AGAAGATACG	CCCCTGACGA	CGACCTGGAG	CAACAGACGT	CGCTACTGGA	CCTCAACTTT	240
	GAACCTCAGT	ACATGTCAGAA	CTCCAAATCT	TGGGGTGAAG	GGACGCACAA	TTCCGAAGAG	300
	ATCAGTGCCA	ATGTGCTTGC	AGAGTCGCAA	CGCCAGGAGC	TGCCCGGGAA	CGAGGGCATT	360
	GAGCGTGAAG	AGGATCTTGA	TTGGAATCTG	GGATTACCGG	AACCAGCAAT	TGTAGTCCCT	420
25	TCAAGCGATT	TTGAACACGA	TAACAGCATA	GAAGTGGGCC	GGAGAGCAGT	CCCCGAATGC	480
	GGACCTTCAG	GAAACTGTGG	ATTTGGGATT	CGACTTGGAT	ATTGCCAGGG	TTGACATTGA	540
	GGCTACAGCC	GGCGAGCAGA	TGCTGGCAGT	TTGCATCTGA	GCTTTCCGGA	AGTATAGTAC	600
	GTCTTCTCTG	AACACTGTNC	ACANCCAAAA	CAAGAAAGGC	ACCTGGTTAT	CAATTCTACA	660
	TTCAACCCCCA	CCGGATTACT	GAAAGGTGNT	CNAAAACCCC	CCCNACANTG	CTCCTGTANT	720
	ACCCATCCCN	NCCCCATTCT	NCCCNAAAAAC	GGNTNTCGAC	CCTTTTNAAT	GATCCTNCAA	780
30	TTTTGCNTGA	CATCCTGCTC	NTTCCAACG	AGNCCCA			

1289RP

	GATCGGGATT	GACCGTAATA	TTTCAGCTTT	TTGATGTGAA	TTGCCAAGAG	GACCAGCGAT	60
35	TTGAATCTCG	CTGACTCTGT	TGTGAGTAAT	TAGTACAAGA	ACCTGTGGCC	TGTCACAATT	120
	AAGCCCTGGG	AATAGGACTT	CAACTTCAGA	AGCCCACGAT	CGTCAAGCGA	TGATACAAGT	180
	GCCTACCAAC	ATTGACTTAA	CATGAAAATT	GATAGCATT	TTATAACAA	GGAAGCAAAG	240
	GACTAAGTCC	TTACAGTGGT	CGCCAAATGCA	GCCTGTTAGC	AGGTTTCGGC	ATATTCCTGG	300
	AAGATGTCAA	CTTCCAAAA	ATATTCCTCA	GAGCATTAA	TATCATTACA	CAAGCCCTTG	360
	GTGTGAGACA	GAATCTTGAG	AGGTGCTGCG	ATAAACTCA	AAATCGCAGT	GCTTGGATTA	420
40	TAGGGCTTAT	ATACTGATTT	AAGTGGTGGT	GGTTATCTAT	TCAGGGTTGT	ATAAAATTA	480
	ATATCACAGT	CGGTATACTC	TTACACACTA	ATTATAATCA	CGTGATATTT	GACTATTTAT	540
	TACACCAGGA	CACCTCGCTA	TGAAAATAGC	AACAGGCTGA	TGGTATTAAC	ATCTGAAGAT	600
	ATCGCCAACA	TTAGAACACA	CTACTGACAC	AACGGCCAGC	CATTCGAGAC	TATGGCTCGT	660
	ACTACTGCAN	TACTGTCAAT	CTTATCTGAC	NCCTGACCNC	TGATTGTTGC	GGAAATCCNT	720
	TTGATCNGCA	AAATCATNTC	GNTGACCNCA	ANTTCTACTN	TATTAACCCC	CCCACCGCCA	780
45	ACCTTTG						

1289UP

	GATCCCAGGC	TGCCCCAGGA	TGACGGAAAG	TTGCATGTTT	TTTTCCGGCG	TACAGGCTCG	60
50	CTTTCCGTAC	TGAAGATTAA	ATCGATGATC	AAAAAACTCG	AAGAGATTTA	TGGTTGGGAC	120
	CATATATCCA	TTCAAGTCAT	ATTAACTCAA	GCCGCTGCGC	AATTCCTTTC	TAATAAAAA	180
	CCCAAGAAAG	AGAACCCTTA	CGTGTCTAGC	GAAACAAACT	CATTCTCAA	CTCCGTGGCT	240
	CACCAGGGGA	AACCTGCAAC	AGAACAACCT	AGACGCATCC	TACACTGCGG	TAAATAGCGT	300
	CTCCAATACC	CCTGCAAGTG	GGGGGCGCAC	ACCAACGCCA	GCAGATCTTC	TCCAGGGCGC	360
55	AGCGCCGCAA	GGCGCGGGCT	CCGGTCTAAG	CCAGGGCGCA	GCTGCGGCGA	AGATTGAGCT	420

	CCCTCCACAC	ATACAAGTCT	GGACGGATCA	AGACGAGTGG	GACGTGTGGA	AGCAAAGAAC	480
	AGATCCGTAC	TGCATATTGA	ATTACGCAGG	TGGGCGATAT	CCTTGTCTGTC	GCGCCACTTA	540
	CGCGAATACA	CTTCCAAATT	GCCCTGGGCC	TTGTTAAAAAC	CCGCGAACAT	GTTCTNCGGG	600
5	NNTGNAACCA	NTTTTCCAAT	TCNTNCCCA	NCCGNGTTTN	GNNTNTTTNA	ACCCCCCCC	660
	TACCCCCCNA	AAAAANAANA	NAAAAACCCC	GTTNTCNGTG	TTTCACCNC	CANAAAAANAG	720
	GGTNCCCCGG	GAAAAACGAAC	TGGGGGGAGA	GAGAGGNANN	AAATTNCNAN	AATCCTTTTA	780
	NCCCNNGG						

1291UP

	GATCGTGAC	GGCAAGACGT	CGGAGCTGCG	TCACGACGGG	CGCGGGCTCT	TCCAGGGGGT	60
	ACCCAGGCC	GTGGCAGTGA	CACGGTACCA	CTCGCTGGCT	GGACTGGCGT	CAACGTTGCC	120
	GGCGGAGCTG	GAGGTGACGG	CGCGCACGGA	GACAGGCGTG	GTTATGGGCG	TGCGGCACCG	180
15	CAAGTACACC	GTGGAGGGTG	TGCAGTTCCA	CCCGGAGTCG	ATTCTGACGG	ACCACGGGCA	240
	GCTAATGGTG	CGCAACATGC	TAGCGCTGGA	AGGCGGTACG	TGGGCTGAGA	ACGACAAGCT	300
	CCAGCTGCGG	GCAGGCGCGG	GCTCTGTGCT	GAGCGAGATA	TACGCTCAAC	GACAGGAGGA	360
	CATGGCAGCG	CAGATGGCTA	TGCCGGGAAC	TGGTATGGCG	GACCTGGAGG	CGAGCTTTTCG	420
	ATTGGGGGTT	CTGCCGGGCG	TGGTGGACTT	CCATGAGCGG	CTGGCGCGGG	ACGCCCCGCG	480
	CTGGCTGTGG	TAGCCGAGAT	AAAAGTGCGT	CTCCGTCGCG	TGGCAATATT	AGCGAGGCGC	540
20	TTGGCNCCAN	AANANGCGCT	TNCNTNTTGC	CGAAGGCGGA	ATTTTCCGCC	ATCTCCGGTG	600
	CTTTACCGAA	CCCACTGTTC	TAAAGGGACC	CGCNAGANCN	NAATTATTNC	CCGACCCNCC	660
	CTTTGANAAA	AACNANACTG	CCCAAANACC	GCCGCGTTTG	CTNCTTTANG	ANATCTTTAT	720
	TNTCCNTTCC	AATNTTTGAA	GCCCGNTTNC	GGCCNACAAT	TTCCCTTATT	TTNAAATTTT	780
	NAACCACCCC	CCCCCAGACC	NTTTTTTTTN	CCC			

1292RP

	GATCCGTGTA	TTTTTTATTT	ACATTATTTA	ATTAAAAATA	ATGATTTAAA	TAAATATTTT	60
	TTATAAAAAA	TAATTAGTGC	ATTGTTACAT	GTTCATTAAA	GAATGATTAT	TATCAAAACC	120
	ATCAACTAAT	TGTTATATAT	TTATTAAATA	TTAATTTTAC	TTAATTAAGA	ATTAGGAACT	180
30	TTATCTATTA	GTCTGGGCTG	TTTCCCTTTT	GATTATTAAC	CTTATCGCTA	ATAATCTGAA	240
	ATATTTAATT	TTAGATTAAT	AATATATTCT	GAGATTTAAT	ATTTTAAATA	AAATAAATAA	300
	TTATTCCCTA	AATAATATTA	ATAACTATAC	CATATATATC	TAATATTTAA	ATAATCATA	360
	TAACATATGT	TTCGTAGAAA	ACCAGCTATT	TGCAAAATCAG	ATTTGACTTT	CTCTACTTAC	420
	CATTATTTCAT	CAGATAATAT	TGCTACATTA	ACCTGTTCAA	TCGTTTTTAT	ATTTTATTAT	480
	ATTTTAAATA	TAATAAATAT	ATATTTTAAT	CATTTGATAA	TAGTAAGATC	ATCTGCTTTT	540
35	GGTTTAATTA	ATATTAACCTA	AATTTAATTT	ATTTTAATTA	ATTTTACATN	GTTAAANATT	600
	TAAATTAATT	TTAAAAACCAN	TTTTATTTTN	AAATTTTGNC	AAATTAATAC	TGGGGGNCCC	660

40	CTTTCCAAGG	GGCCTNNNTN	NATTTTTTNA	AAAAAATAAA	AAAGGGCNNN	ANAAACCTTT	720
	TAAAANTTCC	CCNGGGCCCC	NNAANANTNA	AANATTTNAC	CCNAAAGGTC	CCN	

1292UP

	GATCCAGTTA	CTTAGTAGAA	TGATAAAATT	AATAAATATT	ATTTATTAAT	ATTTGGTTAA	60
	CAATAAAATT	CAATAATTTA	TTTAAATAAT	GATTAAATAA	TCTCAATATA	AAATTATTA	120
5	TATAATGAGA	TATATATTTT	TAAAAAGAA	ATATAATTAA	ATAATCCCAA	CCAAAATTTG	180
	TGCCAGCAGC	TGCGGTAAGA	CAAAGGGGGT	TAGCGTTAAT	CGTAATGGCT	TAAAGGGTTC	240
	GTAGAATGAT	TATTTAAAT	AATAATTAGA	ATTAATAAAA	ATAATTTAAG	AATTATTCAA	300
	GTAAAGATGA	AATAATAATT	ATATGAATAA	GACTTATAAA	GTGAAAATTT	AAATTATATA	360
	TTAATTGACA	TTGAGGAACG	AAGGCTAAAG	TAGCAAATCG	GATTCGATAC	CCGAGTAGTT	420
	TTAGCAGTAA	ACAATGAATA	CCTATTTAAT	TTTTATTAA	TAAAGAATAA	ATTAAATGAA	480
10	AATTAAGTA	TTCCGCCTGA	TGACTACGTT	TGCAATAATA	AAAATCAAAA	CAATAGACGG	540
	TTCCGACTTA	AGCAGTGGAA	CATGTTTTTT	AATTCGATAA	CCNCCCANAA	ACCTTACCAN	600
	TTTTNGAATA	TTTAATTATA	ATAATTINTA	ATTATTACGG	NGTGCATATT	NTCTTCCCTC	660
	CGGCCGGCNA	GTTTTTNAAT	TATCNTNAAC	GAACAAACNC	CCATTTTTTT	TTTNANAAAA	720
	ATTATTTATT	TTTTGAATAT	TNAAAAAAA	TAAANATCCT	TTNTCCTTTT	TAATGGNNGA	780
15	GTNTTTTTTT	TTNTTCNN					

1293RP

	GATCACCGAG	CAGCTGGTTG	GCCTCGGCAT	AAGCGCGCTT	GGTCTCTGCC	CACTGTTCTC	60
20	CAAGACCAAG	CTGCTGTGCC	TGGAACAACA	GGTTTGTGAG	CTGACCACCA	GGAATTTTAT	120
	GTTTGTACAC	CTCTGGGTGCG	GGGCCCTTGA	GGTCCGCTTC	GAAGCATGAG	TACAACAGTC	180
	TCATCTCCGC	CCAGTATGCG	TCTAGTTTGA	TGCGATGATC	GGGGTCTACA	CCCGTCGCGA	240
	TATCGCCACC	CAATGAGGCC	TGCAAAGCCG	TAATGGAGGG	CTGGGACGTT	AAGCCAGACA	300
	TGAGATTGGT	GGCGACGTCC	ACAACATCGG	CGCCAGAGAT	GGCGCATTGG	ACCATTGATG	360
	CGACACCTGT	GCCTGCAGAA	TCATGTGTAT	GCACATGAAT	TGGGAGGTCT	GGATACCTTG	420
25	CCCTGATCGA	GCCAAATCAGT	AGCTTTTGCTG	CACCGGGCTT	CATGGTGCCG	GCCATATCTT	480
	TAATACCCAA	GATATGTGTG	CCCCATGGCA	ACAATCTTTT	CAGTCAATCC	AGTAGTAATC	540
	AAGGTTGTAC	TTCTTGCTTG	CTGTAGCATA	TCACCTGAGT	TACAGATAGT	GCTCAACCAC	600
	CCTCCCGCTT	TCTTCACGGG	TNNAAACCCA	CTTCACTGTT	CTAGTCNTCA	CCCNCTCAAN	660
	CTCTGAAATN	TCANNCATCC	CCTTGCTGTT	TGACAAATGT	CATCCCNNTT	CCGCNAAAGA	720
30	ATTAACACCC	GTGGCCCCAA	CNCCCTGAAN	GATTTTGCCC	NG		

1293UP

	GATCTTACAT	CTGACAACAA	TACGCTGGCG	GCAGATGAGC	TGCATTGATG	GAAATTTTAA	60
35	CACAGCTCGG	GCAACCAGCT	ACACGGGATA	TATAAACTCA	ATGCACGCGG	CTCTTTACTG	120
	ACACAGTCCA	TCAGCATCAG	CACCACCCCC	AAAAATGAAG	ACTACACACA	TCCTATCCCT	180
	AGCAACACTT	GCCGCTTGGG	CACCTGTTCA	GCCCCGACCT	GTTTCAGCCCA	CGGACCTCGC	240
	CGCAGCGGCA	AACGTCCCCG	AGAAAGCTGT	TCTCGGCTTC	TTCCAACCTGT	ACAATGTGGG	300
	CGATGTGGAG	CTGCTCCGAG	TGGACGACGG	CGCACACTCC	GGGATCCTTT	TCGTGAACCG	360
	CACACTAGCG	GACGTGGACT	ACTCCTCCGA	GCATGTGGTT	CAAAAATGGT	TCCGTCTGTC	420
	TCTCCACCAT	GGGCAAAAGTA	TGTAAGGCCG	GACCAGAGAC	AGTTTGCCTT	GAGATATGTA	480
40	AGTTTACTTG	GTGTCCCTACA	CCATGCATTA	TGACACGGGC	TTACGTACCT	GCTTCTATAA	540
	GCTAGTTTAA	ATGTTTCTTA	TGCGTATTAT	ATGGTTTACC	CGCGCCGATA	GTTCCGACAG	600
	GCTGCTGTNT	TAAGGCCNAA	CTTTATTCCT	AANANGGTGG	ATTACCCGGT	NGAAANAATC	660
	AATCTGAATT	GGCGAAATTC	CCGCTGGNCT	ATTANCTCCC	CNNCCCGTCC	NAATAAATGG	720
	AANATGGTGG	GGTTTAATAC	AAAANGGNCC	GNTGCCGGCA	ATGNACTGGA	TTAATTTCAA	780
45	AAACCTCCAA	NTACCCCAA	NTGNN				

1294RP

	GATCCGGAAT	GTGCTCAAG	CTCCGCTGCT	TTCCGGCTGGC	CTCGCTGTTT	TCTGTGGAAT	60
50	CGTTTCTGGT	GGTCTCCTTC	TCCCATGTTG	ACCTTGGGTT	CAGCGTCTTC	AGCTGGTACA	120
	CCTCGAGAAG	CTTCGAGTTA	TCGAATGCAA	ATGGGTTTAG	CATCTCGACC	ATATTCGCTG	180
	CGCCACCTGC	CTGCCCTTTT	GGCCTTACAT	CGGGAOTCCA	ACTTCAACGT	AATGCTATAG	240
	AAAACGCCAT	TGGCCTCGCC	GTCTTATCAC	GTGACTGTTT	ATTACAGCTCG	ACAGCTACTC	300
	GACTAGCACT	GCTGCTGCTT	TAAGTGGGCT	ATACACTTTA	TATCGTTTCA	TTACTTTCTC	360
	CGTGGTCCGC	GGATGGGTGG	TGGTGGCTTG	TGTGCAGACT	CACTCTTGAA	CAGAGGAGCG	420
55	TTCTTAAACA	TGTCTGGTAC	GACAAAGAAC	CTTACGTGCG	AGCCTCCGCA	CGAATACATG	480

EP 0 866 129 A2

5	GTCCATATGT	GTCACCTGGC	CGTTCCGTGC	CGTCGCTGTC	ACGTCTCTTA	GCTGGCAGTC	540
	ATGTTGTCCT	CGCTGCCCAC	CAACTTGCCC	CGATAGTTTC	GCCGGTCGTT	ACTCCAGCAN	600
	ACCGTGNGC	TINGGCTTCC	TTCACACTTA	CAGGAATCCG	GAANTGCCAG	ATCNTACTTT	660
	TGGGTTTGGC	CGTTTCCNTT	CCTGACANAA	ANTGGTTTAT	ATTTTGCCGG	AAAAGNTTTA	720
	ATTTTACATT	TTCNAAACAA	CATANGTTGC	NTTTTTACNN	AACC		

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1294UP

	GATCTGGAAC	TCCAAGTTCC	TGATGTCTCTG	CTTACGCTTC	TCTCGCTGCT	CATGAATCGA	60
	CTGCTGCTTC	CACCGAATGA	ACGACCGCTT	GTCCACATTA	GGATGTACCT	CGATGTCCGA	120
5	GTCAATCCGAG	ATTTCTATCT	TGTCCCACCTT	TGAGTAATCG	ATTGCCATTG	CACTACCTTG	180
	TTTCGTCTCTG	GCTTCACTAC	TGTTGTCTCTT	AGATCTTCTG	GATCCACCAA	TAAGTATAT	240
	CAAAGATTCA	TATATGCAAA	CGTCCAACTA	AATAATGTTA	CACATAAGGA	AGGACCAAGG	300
	CAACGCCTGC	CCAGTTCTAG	CAACTTCTGT	GTGTCACTCT	CAACGATAGA	AGTCTGGTCT	360
	CGAGATGTTG	AGACCGTACT	CGGCCACAGC	GCTGCTGAGG	TCCGTTGACGG	TCAAGGTGAC	420
	CTTGTTTCGCA	TTGGTCTTTT	CGTTTTGTGTG	GTGCTGCTGC	TGGCTGATCT	GCTGTGTGCC	480
10	GGGCTGCTGC	TGACCGAGCA	TCAGTTGTCTG	GGCGCGGGCC	TGGCCGTTGT	TGGAGTTATG	540
	GACGCGAATG	AGGAGCGGAT	ACGGAATACT	CGTAGGCGTT	CGGCCGCNAT	GTGCTAACG	600
	AACTCTGGTT	GCCAACGCGA	AGAAGGCCTT	GACCCGANAT	CNGTGCACNC	CGAACCGTCC	660
	TGGTCANTTA	TTATCCATCA	CACNTCGGGA	AAAAGGGGGG	GGTTCCTCCT	AAGTCNAAAA	720
	CNCTTGANGT	CTGTCTTTCG	GGTGAATCGG	ATTTCCAAAA	CTTCTTTTNC	NGGGTTTGCC	780
	CCNGCGGCCC	CCNGGGGNGA					

1295RP

	GATCTTTCTCT	TCAAATTGGG	ACGAGGTGCT	TAAGTCATCC	TGATCCTGCA	CAATCACGTC	60
	CATATTGGCG	GAGATCAGTG	CCGGTTTGGC	ACCAGAATCG	CTGCCCGGCC	AGGTGACTAG	120
20	CAATCCGAGC	TCGTTGACAG	TTTCCACCTT	TAGCTTACAC	CAAACCAGAG	GAAAGTCCCG	180
	CGACAGCTGC	TCGTGCAACC	GTTTGAACTG	CTTGATATGT	TCCGTGTCTG	ACTTCACCGC	240
	TGTGCAGCAG	TCCGCTGCAT	CCACCACCCA	TGCCGAGGGG	ATCTGCACTG	CACGCTGTAG	300
	CTTCTCGACA	GTGAGATTGC	TGAGCGTCTG	GTTGTGTCAG	ATTTGCTGGA	GGTGGTCTCC	360
	AAAGCCCCC	TGAGGTTTGG	ACACGTCCCA	GCACGATGGC	AGTGACGCCC	CAGTCACCTC	420
	CGAAGAAACA	ACAGCACTCC	GCGCTGTCTG	AGCAGAAAAG	CAGGCCAGCA	ACGCCAGCGC	480
25	CGTTGCAAA	GATATCGGTT	GCCCCAAAGG	CCAAGCTGCA	AACATCATT	TGGTGGTCAG	540
	CGACTGCTTT	TCCCACGAGA	TCCGTGGGGA	CCATGCGCCA	GATGGCGCCC	TTAATATAAG	600
	CCCCCTCTCG	CCAGCATGAC	TTCTGCCAAC	TCCCAGAACAT	TCTAAATGGC	CAGCTGCTGC	660
	TTTGATGGTA	CCTNCCGNG	CTNCGGCCAA	AATTNATATA	CCATAATCCC	CNTCCTAAAT	720
	ATNCTTACAT	ACCACGCCCC	AAAGCGCTCC	CCGNAGCNEN	CCCGAGCCCC	CACCTTCNCC	780
30	NNAAGNANCC	GNTGNG					

1295UP

	GATCAACTTC	AGTTCTGCGC	GTTTGTGCGA	TGGAGGCCCG	CCAACGGCAG	ATAGCTTCTC	60
	AACTGTGGCG	GTACCCCTGCA	CGGGCTCCAC	GACCGCTGTG	CAGTGGAAAC	GCTCGTAATT	120
35	GTCTTGGTG	TAGTGCTTGA	AGTACTCCAA	AGACCACACG	AATGCGAGGC	CTGCGAGGAT	180
	ATAGAAAACC	AGCGTCCCGT	ACCTACCGAT	TGCCATGGTT	GAAGCAAGGA	TTCCACTGCC	240
	GTAAGTACTC	AATTATTGAG	TGCTAGCAAG	CTGATGTTGA	TTGTGTGATA	TCAACGGTAA	300
	TCGGTCGTTA	AGGAACCTTT	TCAAGAAACG	CAAAAGAAAT	GCGTGCCTAG	GTGAGCAGG	360
	TGACAACCTC	ATATTACTCA	TAACAGTTAT	CTATCTAAGA	AGCGGCACTA	TCGATATACT	420
40	ATCAGCTTCG	TATACACATA	TATATCGGAG	GTTTATAATC	GCAAGTTAGC	TATAATTGCC	480
	ATCGAGGTGT	AATACATCGA	AGATTGTCTA	CGAAACTACT	CTGTCACCAA	CACATCAGCG	540
	TATGAACAAT	AACAGCAATA	TTATGACAGG	CAATTGCATA	AAAGTATTCA	AAGAGGGTTA	600
	AACAGTTAAA	TTCCGTAAAG	GTTTCAGNGAN	TATTCCCTGA	CACCCCATAC	CGAATCGCCC	660
	TGCACCAATT	GTTTACATGT	TCANAGATT	TCCGGGACTT	CATATGNACC	ATGTTGCCGC	720
	CCCNAACTCN	CATTATGTNA	ATGCTTGTNT	TCCTGACTCC	CCCGCTTGTC	CCAAATGCCA	780
45	TCCCAGGGTG	ANAGGTGCTC	GTGATCTC				

1296RP

	GATCCATTGT	GCGTTTGGAG	GTCAACGCCAC	GGACGTGGAC	ATGTACGTGA	TGAGCTTCGA	60
	CGGGCAGCTC	TTCATTCTGT	CGGCACGCAA	GAAGCTTGAG	TTCCCGACGT	CTCCGCGGGA	120
50	GAGTTGGGCG	TACCTTGCGT	ATTACAGCGG	ATACAAATTC	GAGCGCATGG	CGCTCCTGGA	180
	CCGTCCGGTG	GCCGAACTC	CGCGCGAGGT	TCTGGAGAGC	CGCGGCAAAC	AGGTCTGCTG	240
	CAACGGTCCG	CAATACAGGA	CTGTGATGAG	AAACGGCGTC	GGGGAGCACA	AGCTGTGCTC	300
	CGGAGCTGAG	ATCGACGGCA	TCATTGACTT	CCGCGAGCCT	ACGGGCGACA	ACCTGAAGCA	360
55	CTACGTGGAG	CTGAAGGTGT	GTGAGAAGAA	CCGGAACCTC	TCAGAGAAAC	TTTCTCTCTC	420

TTGGCTGCAA	TGCTTTCTGG	TGGGCATAAA	CAGGGTTATT	ATTGGATTCC	GGGATGAGAA	480
ATTCCCTCCTG	AAGAGCGTCG	AGGAGTTCAG	TACGTCAAG	ATCCCAACACC	TGTTTAAAGG	540
GCACGGAATA	TTCCATGTAT	GTTGTGGACG	CCATAGATTG	TATGGTGCTC	CTTACAAATT	600
GCTATNTGAC	TCCCCCGGGC	CCTGAAAAANA	NTTCAACTGT	TACAGTCTCC	TGCNNCATGG	660
TGCTTACTTT	TGCCCCACTG	CCCAACAAAA	ACCCCCAATG	GGANAAATTN	TCCCTNGTTG	720
GTCCCCAATT	GGNGNGNCCC	CCANATANAA	AATTCCGNAT	TATTCCCTTG	TTTCCTTAN	

1296UP

GATCGTACGG	TTGCGTGCTG	CGGTTTACCG	ATATGGATCG	GTTGTTTGCA	GTTGGCGAGA	60
GCACGGTGGT	CGGTGTCTCT	GGCGACGTCT	CGGACATGCA	ATACCTACAG	CGCCTGCTCC	120
AGGACATGGA	GATCGAGAAC	AACTACGACA	ACAGCCACGC	AGACGGCGCG	GAAGCGCTCA	180
AGCCGAGCTA	TATTTTGTAG	TACCTTGCCCT	CGCTCATGTA	CCAGCGCCGC	TCAAAGCTGA	240
ACCCGCTCTG	GAACGCCATC	ATCGTCCGCG	GCGTCGAGGA	CGGCCAGGCC	TTCTGCGTGT	300
ATGTGGACCT	CAAGGGCGTC	AAGTACTCCG	CCCCAAGCTT	GGCTACTGGC	TTTGGCGCCC	360
ATATGGCCAT	TCCTCTCATG	CGTAAAGTCA	CAGATGCCGA	AAAAGACTCG	CCGGCGTCCA	420
CCTCTCAATT	GCGCGAGCGA	CTATCCTGGA	GTCCATGAAG	GTGTTATTCT	ACCGCATGTC	480
GCGTAGTTCC	CGTCGCTTCT	CGCTTGCCAT	CATCGACAAT	GATGCCGGTG	TTCAGCATGG	540
AGCAACTGGA	AGTGGAAAAC	ATGACCTGGG	GTTTCGCCCA	AGGATATTCC	GGGCTATGGC	600
NCCCAAATNT	TTTGAATTAC	CNNGGCCGCA	ACGCCGCACC	CTGTTTACTA	TCTTGTTCGC	660
GGNTGTCNCC	CAACCGCTNG	GNTATCCCAT	ACNTTCAAAA	NGCNTAATCA	TCTGCCCTGA	720
ACCCCNCTGT	TTTNGTNGAN	ACCTTCNCCC	CTTTTCCNGA	TTTCCCGGAT	TGNCAAAAAC	780
CCTTTGAAAA	AACATTNCCC	NTTGGNAAAT	CGATG			

1297RP

GATCTCCTCG	ACGCTGGTGA	CCTTGCCGGC	CTTCACAAGA	CGGCCCAACT	TGGTCACTGG	60
CACCCAGCCC	TCTCCTCGA	CCTCTCTTCT	GCCCTTGCGG	CCCTGACGGC	CCTTGTTTCT	120
GGCGCCGAAG	CCGCTCTTTC	TTTGTCTTGG	AGCTGACATC	TTGCTATCGT	CGGAATGGAA	180
CACGGAAGC	TGGGGGAGTA	ACTTTCGATC	GACGCTGCTG	ATGTAGTTAC	GATACAGCTC	240
CGGCCGCGCG	CTTGCGTGCT	GAAAACCTGC	CCACGGTCTG	CGTCACCAGA	AAGGAGGTCT	300
GGGTGCTACC	GCTGTMTCCG	GCCTCACGAC	GTGTCTGGGT	TTACACTGA	AACCCACACA	360
TCAGACAAAC	GCAGTCCCGG	ACGGCTCGAA	AGCAAAACCC	GCGTGAAGGA	GCAACGCGGA	420
AGCTGCGGCG	TCCGTGCCGA	ATCTCGTCAA	AAACAGGGGT	CACAAAGGGA	TTGGCGCTGG	480
CGCCAGGACT	GCTACGGGGG	CATTGGCCCC	GGCGGCAGCC	CCGAGCAATG	GAGCAACCCC	540
CTTCGCGAGG	TACGGCTCAC	ACTGCGGTAT	AAAGGCGGGC	AGAGCGGTGG	AAGCAGACAG	600
TGACACACAG	GAGAGGACAG	ATGTCCGACN	NCAAAATGAC	AATCCTATCA	ANAGGNGCGT	660
CGGGGCCAAA	CTATCAANAG	NTTCGAAAGT	CCAAACTNGC	CAGATCAAAA	GGCCCCAAAG	720
GGAAAAAACT	TCCCCCCCAC	GACCCTTTGN	CATTTTTAAC	CGCCNG		

1297UP

GATCCAAAAA	CAATGAACTG	TTTACAATGT	GGAAGCCGTG	ACACAAGTGA	ATGGCGCTCA	60
GGACCGCTAG	GAAGGAAGTC	TATGTGCAAT	GCATGCGGTA	TCTGGTACAT	GAAATTAAAG	120
CAGCGGTTTG	GGGAGGAGGA	TGCTGCGGTG	ATTATGGAAT	ACCGGAGATT	AACTAATAGG	180
CACGATGATC	GCAGGGTGCC	CAAGAAAATT	GAGGTCCCAT	TGCCGTGAGG	CGAAAAAGTG	240
AAGAGAGCCA	TAAGAGCTCG	TGTTGTGGAG	TATTTGAATG	ATGTTGAAAT	CCCGGTTAAA	300
ACGAGGAGGC	GGGCGTTATT	ACATAAAAGC	AAGCCGGGCA	GTGCGTTAAA	AACAGAGATG	360
AAAACCCCTG	CCGCATGAAG	CACCTGGAAG	ATGAAACCAG	TTTGTACAGC	GGAAGGACAA	420
TACCGGCGGG	TAGGAAGGTA	GAGACTATGC	TGTGGCATGT	AAGGAACGTA	CTTTTATTTA	480
TCATAACATA	CTAGGGTTCT	TTTGACCTGN	TACCTTTGTA	TTATCCTTTG	AANAACGTAA	540
CCCCCNCTTT	TTAAAAANTT	TTCNNNTTGN	AAATAAATCC	CCTTTAAAGA	ACCCCCCCCN	600
NAANCAAAACC	CTTNTNCCCT	TNGCCCAAAC	CCACCCAGAA	ATTTTCCCNC	CNTTNCNGAN	660
ACANNGTTN	CGAGATTCCC	CCNTTTNCGC	CNAAAAAANC	TCCCCCGGAN	TNTNTNCCAN	720
AGNGCCCTTT	TNCNCTCCCC	NCCNANAATC	CCCAAATTAG	AAGGGGTNTT	CNCCCNNGCT	780
CCCCGAGATC	CAAAA					

1299RP

	GATCTCCCAC	ATTGAGACGG	TAGCAGCCCA	CATATTGCGC	TTGAACGCCA	TTAAACGGCG	60
5	CCATTGCTCC	CATAGAGCTT	TCAGATTTCC	TGTTAGGCTC	CAACTCAACG	TCATACTGGA	120
	GTTTAAATCG	AGTGGGTGCT	GTTGATATCC	AACTTGGAGG	CGTTCTTTT	GTCCTCGTAT	180
	CGCTTGAATA	GCCGCCCAGG	TCCCGTGGCG	AAAATCCATA	TATATCCATA	TTGGCCACCC	240
	AGCTTGTAC	ACATAGAGGC	AATAGTGCCA	GTAATGCCCT	GAGCCGAAAC	CATGCAGCTC	300
	CCCGCGGAGG	AGGCGCCCCG	CAGCGTCCGG	TTCCATAGAC	GGCAAGCCCG	GCGAGTGGCG	360
	CGCACGCTCA	GCACGCAGTT	CCTCCCTGTC	ACGGTATGTC	CCCAGCCGGC	GGTGGCACA	420
10	CCCAGATACT	AACACAGCAC	AGACGCTGTA	TCAGCTGATT	GTCCAACCGG	CGTACTATTT	480
	CACGTTTCTG	GCGAATGTGC	TAGTGCACGC	GTTCCGCGAG	GGCGCGGCAG	TCGCCATAGC	540
	AGTGGCGTTC	TGGATGTGCA	CGGTGGGCCT	GGGCATTCCC	GCCCGCGCTG	CCATTTGTGC	600
	TGCCGCACGC	GGTGTGGCAG	GGTTGTCTGG	TGGGTGCGGT	GTGCTGCCGC	AACTACCACC	660
	TGGAGTACAT	GGAGACCTAC	ATTGCGAGCC	TGCTCGTGAC	GGGAGAGGGG	GAGTCTGT	720
	TTCNCCGATG	GGCTCCCGGC	GGTGGGCGGT	TCC			

1299UP

	ACGCTTTTGG	TTTTCGGCGT	GATGGTGGGT	GGTGGTATAG	ACGATGTGAT	CTCCGGCTGC	60
	AATTGTAAGC	CTTCTCCTCC	GGAGATATCC	CGCACGGAGA	AGTCGTCTAA	ATTTAACATT	120
20	ACGTTTCATG	AATCACAGGG	CACCTTTTCA	AAGACACAGA	CGATCATGCC	ATTCTTACGC	180
	TTTGCCCA	TGGACGCCCA	AATGAATTTT	TGTGTATGCG	AGGATGCTGA	CGATGCAGCT	240
	GAAGCAGGAG	ACGACAGCGA	TGTGACGCCT	GGTTGTATGA	CGCCTACTAT	TTCACTGTG	300
	AATACTTGTT	CTTGGCCCTC	TGTAGACATA	ATCTTGTTAA	GGACAAAGCT	CCTGCTGTGC	360
	GTGTGTATCA	GGTCAAGTAA	AGTAAGCGCC	TTAAATGCCA	ATTTGGAGAT	ACCGAAGATT	420
	AAGCATGCCN	AATCGTTAGC	CGCCCTAAAC	TGCCATGGGT	GATGCTGGGA	ACAGGTAAAT	480
25	ATGGCCTGAG	GTGCTGTGTA	CTTACCTGAT	ATAAAAGTAT	GCAGTATGCG	GGGCGCTTCG	540
	TACGTTCTGC	TGTAGTCTAT	CGGATCCTGG	ATAGATGTTA	GTTTCATCGGT	AAATGGTTGG	600
	AGATAATTTT	CGTCTGCGA	GGCCTGTATA	GTAGTTTCTG	TGTTGAATAT	TCATGAAATG	660
	GTTGGGCTAA	GCTTTCAAGC	AGCTGCTTCT	TTAGTTCTTG	CTCATTACTG	ACTTTCTTCG	720
	CAGGATCTAC	GCCATCCGCG	TTGGTGTGTA	C			

1300RP

	GATCTCTCTG	CGCGGTGCAC	AAATGACGCA	GAAACAGGCA	TTCACGGAAT	TGAAGAGGCC	60
	TCAACTGCCG	CCGATCGCTA	CAGGCGCAGT	GGGACGACAT	CCTTTCTTTG	GTGCGTATGA	120
35	GGATACCTAA	ATAAGCACAT	ACAAAACGTT	AAATATGCAT	AAGGAGATAT	ATGCGAAAGT	180
	TAAAGTGTTT	TTAGTGGCCC	TCGGCCACAG	TTGCGTGTTT	CAGCGATAAT	GGGAGACCAG	240
	CCCGGCACGT	GATCAGATAC	GGTTGTAGTG	GCCATACGGG	CTTGCGGACG	AATCTACGGG	300
	GTATGTTGCC	TGACGCTGCG	CCGGCGGGCT	CTTACGCTGA	GTTCCCCACA	GCCGTTCCCTC	360
	GTACTGGTTG	ACGTCCTCGT	CGTGCAACAG	CCCTCGTTTG	CCGTAGCGGC	CCCGACTGCC	420
	CCCCGCCCTC	TGCGCCTCGA	GATCGTAAGA	CTCGTTGCTG	CTGCTCGAAA	AGCCCTTCTT	480
	GCGCTCGCTG	TAGTACTCGT	CCTTGCCGTA	GTACCGCGCG	GCCTCCGGCG	TTACTACGGG	540
40	CTGGTATACC	ACTTGTGGCG	CGGAGCATAT	ACTTGTGCAC	GCTGCTTCTC	CTCGCGCCCG	600
	CCGCTGGCGG	TGCCGTCTAT	AGCAGCAGCA	CGGCCAGCAC	AAGAGTCGCA	GATTCNCTC	660
	ACCCCCCAT	AAACNCCGAN	TTACACCCCC	TATCCNATAC	CCAATTGACG	CTACNCATCC	720
	CNCTATACCC	CATCNTGCA	CNCGGTACCT	ACTTTTCCCN	AANTGACCCC	CACNTNC	

1300UP

	GATCGAGGAG	TTTCCACTGG	AGGTGGCGCG	CTACATGACG	CTGCTGCGCG	AGATAGACGC	60
	CAAGTGCGTG	CACACGGTGC	CGGAGCTTAA	CGCGCAGATA	GGGCGCTTCC	TGGCTGGCTC	120
	GCGGCAGCCG	GGAAGCCCGC	AGCTGCAGAC	CATCAACCGG	CTCTTCCAGG	ACCTGATGCC	180
50	GTCCGTGGAG	GAGAAGATGC	ACGTCTCGTC	CATTGCGTTC	GAGACGCTCG	ACCGGCTCGT	240
	CGCGCGCGTC	GAGCTCGCGT	ACGAGTCTGC	GCTCAAGAAC	CAGGAGATCC	CCGACAAGCT	300
	GCGCCTGGGC	AACGACAACC	ACCTTGCCAT	GCACCTGCAC	CACGAGCTTA	TGAAGAAGAT	360
	CGAGTCCAAG	CAGCAGAGCA	AGTCGCAGCA	GGCGCTGCGC	TCCGAGTCCC	GCCGCGAGGC	420
	GATGGCGGCG	AAGAAAAATG	ACGTGGACCC	GCGCGCGCTC	CGCCTGCTCT	CAAAGGCCCC	480
	CGCTCCCGNT	GGCCCCCGGG	CGCCCCCTGG	CCGCCAAGCG	CCCGCGCAAA	CTTTCCCCCC	540
55	CGCCCCCGCG	GCNAGCGCAA	GAAGCCCAGG	AACAANTACT	CCGCCCGCCC	CCNAAACAAC	600

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AATTTCGGGA	AGGCCTCTTA	CTGCTACTGC	AACCATTGNC	CCTACGGGAA	AATGTCGGTT	660
GCGAANGGGA	AAAATGCCNC	TCNATGGTCC	CTCCCCTGGA	TCACTCNAAA	CCTTACCGAN	720
GGGAAAATGTT	CTGCAANAAT	GCAAAAAAAC	CCTACATACA	GNCCGGTTAC	TANNTCCCCC	780
CCNCCTNCH	TGCCTTNCAA	TGGGTTCNC	NT			

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1301RP

	GATCCGCGAG	ATTCATCGTG	GACCCGCCAC	AGGCAATTAC	TATAACAACA	TCCTGCGGTG	60
	TTAAAGGACC	TAACTCACGC	TCAAGTATTT	CAGGATGATA	TCCTAGATGA	AGAGCTGCGC	120
5	CACACGCTGG	TTCCGGTTACA	ATATTGCTCT	CTTCCGCAAA	ATTTAAACAT	GTCTGTACTA	180
	CAGCGAGCTG	GTCAAGCACA	ACAGATTTTG	TCCTGTATTT	TTGGGCGTAA	CTCAGAGTAA	240
	GATCCGTCAC	GAAAGATGTG	CATAAAGAAG	TAGCAACGCT	TTTAGGATTC	ATCGAAACGT	300
	TCCTGCCCAG	CAGCAAAGAT	CTGTGCAAAA	CCTCGCACCC	CTCTGTTTCC	ACTGCTACAA	360
	CAGGGATAGA	GTCTGCCAAA	CCATGTTTCT	CCAGCCCAT	TACAATCCCA	TTATATAACC	420
	CCCCGCCACC	TACGCTGCAG	ACGATACCTT	TCACGCTCTC	CAATTGCACG	CCTTGAGAT	480
10	GCAGTGCTTC	TACTACTTCA	TCTACCATTG	TTGCATGCCC	TTCCCAGATG	AGTGGTTGTC	540
	GAATGGATGT	GCATATATCG	GAGCGACTTT	TTCTAATTCA	CATTCCCCAT	CAACTCCGGA	600
	CCGTAAGTTA	TCATCGCTCT	CTTTCAATAC	ACTTCCCAT	GANATCACAT	CNGCCCCCGT	660
	TGANCGGTTT	CGCTCTACCT	CCNCCGCCAA	TTNTTTTCNG	CCTACNCGGG	CAGGTNTCCT	720
	NTTNNCGTGA	CCCGTGGTGC	TGCACCCNTG	CNTGCNCCGA	CTCCCNAAAC	NTTTGGNTGC	780
	GNGAAG						

1301UP

	GATCATCTGC	GTGCGATACT	GGCAAAAAAT	GAGAGACAGC	ATGATGAAAA	TATAGTTAAT	60
	AAGATATTGC	ATGATATAAG	CACAGGCGGG	TTTCGTGCGA	GAGGAAAGGG	TGCACTTGAT	120
20	CTGGAAATGA	GTGAAAATGA	AGACCAAGAG	TTACAACAGT	TTAGACAGAA	AAGACGAGAA	180
	CTTTTGAAC	AAAAGATATT	GGAAAATGGT	GATACTAGCA	AGCTCGTATC	TAACCCCAAG	240
	TCATACGCCT	TTTTTCAGAC	GATGGTGGAC	GATGTTACTG	AAGCATCATT	TGGAAATACA	300
	TTTGATGCCA	ATATAGATGA	AAAAACAGAT	CCATCTGCTG	CAGGTCGGAA	AATTGTCATA	360
	TCAGAACAAT	TTGTAAAGGA	AACCCTGTCA	TTCTTGTCGA	GCAAGAGTGG	CGACTCAGAA	420
	ATCCCTGCAG	AAACTAAATC	TATTTTCATCC	AGCACAGTTG	AACGTGAAGA	AATTCAAGAC	480
25	TTTCATACATT	GAAGCAAAAT	AGTAACATTA	ACATTTGAAA	GGAGTCTAGA	CTTCTGCTC	540
	AGATGGCTGA	CTCAGCAGTG	AGATAGAGGT	GATTACNGCT	TTCTTTANAT	ANATTCCNCN	600
	GCCGCNAAAT	TTTTATATGA	ACTACTTCAC	AANANTTTTA	AAGTTGGCCC	CAGGGGGGCN	660
	ATCTTAAGGG	AATAAANATN	GCGTCCAAGC	CCAATACTTT	TNTNGGAAAN	NGTNGNGGTC	720
	CCCCCNAAAG	GATTTAAATT	CNACCAACTT	NTCCNCCANN	ACCCCCCCCC	TTNTTTTCNG	780
	NG						

1302RP

	GATCGAAGAG	CTTCTCGCTG	ACTTCGAACG	GCACAAGGTA	CCCAAGCTCC	TGTAAAGAGT	60
35	TATGAAACTC	CGTAGCGGAA	AGCGTGAACG	AACCGTTAAT	ATCATTGTCC	ACATATATCA	120
	TGCGCCACTT	CTTCAACGCG	TTGTATAACG	AAGTAAACTC	AGACAAGTTT	ACGGTACCAA	180
	AGCGCGTCCG	GCCAAACAGG	CTAATTAGCG	CGTCCACCGA	ACTCATGCAG	AACTGCCAAT	240
	TGTCATCAT	CTGTAGTAGT	CCTCTGCTGT	GAGACGCTCC	ATCTTCCGGA	ATCTTCCGGA	300
	CGTCGTGATT	CATGAATAAT	TTCTTTGCTG	TTATAGCATC	GGGGTCTTCA	TTAGGAACGG	360
	TGGCGGGCTT	GGCTTGGGTA	TGGTTCGGGT	GAGGCTGCTG	AGCTGGCTGC	GGCCTTGCAG	420
40	GCAAATTATA	GCTCTGTGCG	CTCGGTGGTA	TTGGCTTCCC	GTGGCCCGGC	AGGCCAGGCG	480
	GGCCTGTGGA	ACGCGAGGAG	GATTTCCCTG	AAGCTGCCCA	ACGCCATGCG	CAGGCCAATA	540
	CTATGTGTAC	AAAAATTGCC	GTGNTCCTGC	AAAACCTTTG	GTCTGTACAG	AACCCANCCC	600
	ATGGCCCATG	GAACGNNNTG	GNTTTTGTCC	CCAAATTAAN	CCCTGGANAA	NTGGGNAATT	660
	TTTGCCCATN	TTTTCCNATT	AAAAANGGNG	GGGTNNAAGT	GCNAGGGNGC	CCATNTNGGG	720
	GGGNAAANTC	CGCGCCTTTT	TNTTTTNCAT	AANGGNCCNC	NTTGANNNCC	GCCCCNNNNC	780
45	CCCAC						

1302UP

	GATCAACAAC	ATACTTCTAA	AGACATCAAT	ATACGCCCCG	ATGTCTCCGG	ATGAAAAACA	60
50	TGAATTGGTT	GAGAGGTTGC	AGTCCATTGG	ATACCAGGTT	GGCTTCTGCG	GCGATGGTGC	120
	GAATGACTGT	GGTGCCCTTA	AAGCGGCCGA	CATTGGTATA	TCTCTATCCG	AAGCGGAGGC	180
	ATCTGTTCCT	GCGCCATTTA	CATCCCCTTT	GTTTGAAATC	AGCTGTGTTT	TGGACGTAAT	240
	GAAAGAAGGC	CGTGCCCGGT	TGGTCACGTC	CTTCGCTGTT	TTCCAATACA	TGAGCTTATA	300
	TTCTGCCACA	CAGTTTGTTA	CAATATTGAT	CTTGATACAG	CGTGGATCTA	ACTTAGGGGA	360
55	CTTCCAGTTT	TTGTACATCG	ACCTCTTCTT	GATCGTGCCG	CTAGCGGTGT	TCATGTCTCTG	420

	GTCGAAGCCC	TATGAAGTAT	TGGCCAAAAA	GCGGCCAACG	CCAATTTGGT	TTCTCCGAAG	480
	ATATTGATTC	CTTTGCTCGT	GCACATCGTG	ATTTGTTCGT	GTTTCAGCTT	GTCCCGTGGC	540
	TCGCAGTCCA	GCGTATGAAG	TGGTACCGGC	AGCCAGTCGT	CGCGACGACG	AACATGTTGC	600
5	TTCCCANGAN	NACNCAACCC	TTTCTTNGTC	TCCACTTCCA	TAAACCCCTGG	TCCCAATCNT	660
	GCTTCCGGTN	GTCNCNCCCN	NCCNCAACC	NAANTTCGAA	AATTTTGGTT	TATGGCANTT	720
	CCCCCTTCCC	TGNCCCTCCC	GGTGGANNAT	TTCCCCCCCC	CGAAACAAC	TGGCNCNTTT	780
	CNCTCCCGAA	GTINCTCCAT	NTC				

1303RP

	GATCAGGTG	CCTTTATGGC	CATACTTGTT	GGACTCATAG	TATATCTCGG	CGACTGCACT	60
	ATTACTGGAC	TGCTTGTC	GATCTTGCGC	ACCCATCAGC	CCGACTATAC	TACATGTCTC	120
	GTGGGGCTTT	GCGTCGTAA	CCGGCAGAAA	AGATACCTTT	ATACTTTATA	ATACCAGTGA	180
15	GGCGGCCATA	CCACGTAATC	CATCTTTGTT	GCCAAATAAT	TACAAATATC	CTTTTAGCTA	240
	CTGGAATTGG	GCTTATCCTT	ACAGTGTAC	ATCAATTTTC	TATCGTAATT	CGCTATCTCC	300
	GCTCGCAATC	ACTGCACTGC	AAACCAATTAT	CGTCTTGATA	GATAAAGATT	ATAGGGTAGC	360
	GATCAATAGT	ACCGGTAAAG	GCGTGACCAA	TATTCGTCTG	GCGGTGTTTA	GATGGCCGAG	420
	ACGCTAGAAT	GTGGGAGCAT	GCTGGTTTAG	CGATATGGGA	AGCCTTCACT	AGAACCCTGC	480
	CACTAGTAGA	GCACAGAACG	TTGAGACTTA	CAGCTGTTCG	AAGTATAAGT	TGTAAATTTTC	540
	CAAGGGTGGC	AAGTAATATC	AATTGATTCTN	AAATGACTTA	CCCCTACGTT	GAAGTGTCTA	600
20	CTTTAANTTG	GGTCGGGCCC	ATCAAGCCCT	GACACTCTTG	ACTTTCCCCC	ATGAAAAAAC	660
	TCCCGGGTGG	GTTCNANCCC	CATTNCCCAA	ATACANTCCA	TANGTCCTGG	CCCTTAACCA	720
	CTTGNTCCGG	AGGATTTTTT	TNCCAANAAG	ANNNNACTTT	TNAATTTNGC	CAC	

1303UP

	GATCTAAGTC	CTCTCCCCCA	AGCGGTGACG	CAAGTGGACT	GTCTGTGCGT	CGGTTAATAA	60
	AGTTATCGAG	ATGGTCCACA	AGCTCATCCA	CCTCGGATAT	ATGTGCGCTG	TGAGTAGGCG	120
	CAGAGTCACG	TGCGGTGTG	AACGTGACAT	CAGACTTTG	GGACGGGCTT	CCTAGCTCAG	180
30	GGTCCAAATC	AATGGACACC	TTTTCCAGCT	CTGCCAGCGA	GCGCAAGAAC	TTTTTGTCTA	240
	ATATATAGTC	GTTAGTTTGG	ACCACGCAAG	AAACCGGTG	TTGCTGGCCT	CCTGACGCTC	300
	TCCCGTGTAC	CTCGGCTGCG	CTGATGACTT	TGCCAGTGGA	TGGGTCAGCG	CTCTTGAGGA	360
	TGACTTGATC	GGGCGACTGC	CACCTTGCCA	ATCGAGGATC	GTCTACAGTT	GTAACCGGGC	420
	GCACTTTCTT	TTCTGTAGGT	GCTCGCGCTG	CTGGTACTGG	ACTCCTCCTG	GACTGTCTGG	480
	GCCTTACTGG	ACCTGTGCTG	GCTGCTGTTA	CTGGAACCGA	AAAAGAAAAA	TGACTTCCCC	540
	TCTTTTCATA	TGACATTCCC	NGTTGTGANA	CNTACTATTG	GCCCCNAGAA	AATAANTTAG	600
	GGNGAAATAC	ACTCNCTATG	TTTGCTTATA	TTTCCCNATC	CATATACAGC	CTGCTGATTC	660
35	CCAGTTTAN	AANTTTAAGT	GCGTTACCTT	ATATGTTGAA	NCCCGTTATA	TGAAGAATAA	720
	CCCCCAANT	TTGCAANGAA	CCCCGNAGGC	ATTGNCCTCT	TCANCANNAT	TAAGNACATT	780
	TTGTCTCTTC	AAGNACTTTA	TAAGNCC				

1304RP

	GATCAATGAG	CGTGGCTACT	ACTGATGCTT	ACTGCAGTGC	TGTGTCAATA	TTACATATCG	60
	GTGGATAGCT	AGATAAAAAAT	GCTATACATA	TATCTGTGCG	CATTGTGCCA	ATCTATATCT	120
	ATTTGTGCCG	ACGTTGCGGA	CCAGTAGGAG	GTTGTGTTCC	GCGCGGTGCG	CAAATTCGCG	180
45	TGAGATCAAG	CCATTGCGCTG	TGCTCTTGCC	CTCCCTTAGA	TGGTAGGTGC	CACCTGTAAT	240
	AAAACCGACG	AGATCTTGTA	CGCGCGGCAG	AGGCTGATCG	GCGTCATGGG	TCCGTTTGCC	300
	CGCAGCATTG	TATTTCTCTGG	AAGCGACTGC	CTGCCAATGG	GCGAGATGCT	TGACAGGCAC	360
	TGCATACAAG	CGGCGATTGT	CCCTGAAATG	GCCGCGTTG	AGGGCTGTAC	AGACAACGGC	420
	GATCACGGGA	AGTTGGGTGG	TCACAACAGC	CAGTTGGACG	GGCAAGCCTG	TGTCCATAGG	480
	AGGTTTGTGA	AAAAAGAGACA	ACTGGCTTAT	TGTNAAGGTC	CCGGGGANCT	NCNAAAAANA	540
	TCTTGGTGGC	AATACCAACN	CCTAAGGATT	TCANCGNGTT	CCCCAACTTN	ATTNTNTTTN	600
50	TNGCNCCCGT	TTCAAAATCA	TATNGGTGGG	TTGCNNGCGN	GAATNTTCTT	TTCNATTTCA	660
	AACCAACGNG	GGGNGCCNT	TTGAGATTGT	GANACNCCCC	TCNAAANANA	NTTGTCCCTT	720
	TTCNCCNNAA	AACAAAAATTN	NGGAGGAAGA	GGTTTANCC	CNNATATATNC	CCCCNCCN	

1305RP

	GATCAATGTA	TCCATTATAC	CCAGCTTTTCG	CAGCGACATA	ATATATTGAC	TTGATTTTAA	60
	AGCGGTAGAA	CTTTACGGGG	CTAGGGCCGC	TAGGTATCCA	AGGTTTAGCA	TCAGGATGCA	120
5	CGTCTGCAAA	GCACTTCTGC	AAGGCTGGAA	TGGGCTGGAG	TACTTCGAGC	TCACCCGCGA	180
	AGTTTGCACG	AGGTGCTTTC	ATGGGGTCTT	CAATCGATAT	AGACGCAACT	GAGAAAGACA	240
	CGTTGTATT	GTTTTTAGCG	TTTACTTGTT	GTAGTGTCGT	GTCGACCATC	AAAAAAATGG	300
	GCTGGCCGTC	ATGCTCTACT	CCCTCACATC	TGTCGGGAGA	AATATAGTAC	ATTCTAATAC	360
	CATATGGAGT	ACCGTTTTGA	TTGATTGTTG	TCAACTGGAA	AGAACTTTCG	TCTTTAATTA	420
	ATTTCCTGAG	TTGCACTGCT	GCTTGTTGTT	CCTCCTGCGA	CGCTTGCGCG	AAAGCCGAAG	480
10	TAACTAGTGC	CAAAAAACAT	GTAACATAATG	AAAAAATCGA	CTTCATTGTT	GCTATTGAGT	540
	GCCAAATAGGC	GAGACTCATC	CATATGTNAT	GAAAGCGTTT	ATANATCNTT	GTINTGGCTT	600
	GAAAGAAATTA	TTATACTTTT	CCNGGCGGTT	ACATTATCTT	CCAACCAAAT	TGTTTCCTTT	660
	TNGANAGGNA	ATCCCCAAAA	TTTTTNAAAT	TAATTNGTCN	NCGCANCGGT	TTTTTCCCCG	720
	GNGGGAAAAA	NAAAGCNGGN	NACCCGCCAA	ANCCGAATAA	AGGATTTCCA	TNAAAACCCA	780
	ATTNTCCNAA	AC					

1305UP

	GATCCCCAAG	AAGAACATCA	AGATCCACGG	GTTCTAGGCG	CTATGTACTT	TGTGTAAGTC	60
	AATACATATC	CTCCTCCTCC	TCCACCACCA	CCACCTCCTC	CTCCACGTCC	CTCTGCGCCT	120
20	CCGCATAGTA	CTCCACACAG	TACCGGAACA	GCTCCTCGCT	GAACAGCCTG	GCCAGCTCGT	180
	CGCCGTTGGC	AAACTCCTCG	CCCGGCCGCT	CGCCTGTCCA	CCGGAACCAC	GCAAAGAACG	240
	TCCCGTCGTA	GCGCTTCGGC	CACTCCATCT	CCACCGCCGC	GCTCCGCACT	TCCCCGTCCT	300
	CCCCCACCCT	GAACGTGCTC	CTCAGCTCT	GCGCCCGCAG	CCTGCCCTCC	ACCTCCCCGA	360
	ACTCCACCGT	TCCCAACGCT	GCTCCACGNG	CGGCCCTGCG	CCCTCCACCC	TCCACCCGCG	420
25	GGATCGCCTC	CACGTACCGC	CAGTCCGCCG	CCCGCACGTA	GTTCCGGAAG	ATCCCCGTGC	480
	TGCGTCAGCA	CGAATCCCCC	AGAACCCCCG	GATCCCCCTC	ATCGCCTTGC	TGCGCCGCGC	540
	GTATACCGGC	CCCAGCGCCG	CTGCCGCTCC	ACCTCCAGCG	CCCGGTCTCT	CCGCTCCCGC	600
	NCCGCTNNGA	NTCCGGAAGN	GCTCCACGNG	CGGCCCTGCG	CCCGTTAGTC	CCCTGCCCGC	660
	CATTTAGGNG	GGGNNCGGCC	TTNNTTGTTT	NNNGAAGGNA	GNGTCCCGNT	TCCNNGGCCG	720
	GNTNNGTTTT	TGGGNNGGAG	NACGGNGTTT	TTGGANCNCC	CANTCNCGGA	NTCCTGGNGC	780
30	GAANGGNNGT	TNCCNCCNNN	TTGAGCCCCC	CT			

1306RP

	GATCTGATAT	TGGGTAATTG	CAACCTTTGC	ACCGCTTTGA	AAAGTACTTT	AGGAAGTGGT	60
35	ATTTGCAATA	TAGTTCATCA	TTGTAGTGGA	AGCACGAGGA	TACCTTACAC	TTGGTACCGC	120
	AAACCGTGCA	GCAGAAGTGT	TCCTCGTCAT	ATAGCTTACC	AAATGTATTG	TAATACACGC	180
	CGCTCAGTGG	CTTATTGCAC	ACATAACACA	ATAGCTTGTT	CCGCGTGAAA	TAATCCTGCT	240
	GGCATAGCAG	TACCACTTCA	GACGTATGCG	GGAGCTCATA	AGGGAAGAAC	TTCCGGGCGAC	300
	ACAAAGCTCC	ACAATCGTGA	CAAAACCAGAC	AGTTTTTCATG	GTAGTAATCA	CCAAGCGCCT	360
	TCAGGGAGTT	CTGCGTGATA	ACCCCTTTGC	ATTGTTTACA	GATTTTGGCC	GTTTTTTGAG	420
40	ATGAGGTGGC	GGTTTATGCT	CCGCAGACGT	TCGCATTACT	TGCTCCGACG	CACTGTGTCT	480
	ATGGTTGATA	TGGTCACTAT	ACGTCCAGCA	ATAGCTGTGC	TTCTGTATAT	TAGTCATGAA	540
	AAACAGTAGC	ACTCCCTATC	TTACCCCTTG	NGATCGTATT	GGTACCGCCA	AATNGTTAAC	600
	CCATTTTCCA	AGAACATTCT	ACCNCCTCCG	TTTTTGCCCC	AAGAGAGGTN	TGCTATATTT	660
	GCCAAACAAA	GCCCAACTGA	AATTNAANAA	ACCCTTTTTT	CCCCCTTTTN	TTTCTCCCGA	720
	GGAACCTTTT	CGGCAANTTT	CNCCCTAAAT	TGTNTGGGGG	NTGANANCCN	AGAAAANC	

1306UP

	GATCATTTCA	GTGGATGGCG	ACATTATAT	GGATATCAGT	TCGACTTTTG	TTTCCAGTCT	60
	TATTCCACTG	ATTTTCAGGT	TACAAGAATT	GGGAAGGGGT	CTCCATTTTG	TAGGGACGAA	120
50	CAATTGTAA	ATGTCTCAGG	AATTCAAGAC	TCAGGTTGAA	ACGAAAATA	TTATCTTATC	180
	CCTTCTGTGA	GGGGACGATA	CCCTACAGAT	GATTATCCAA	CCCATCTCTT	ACGAACTGTC	240
	ACTACATACA	GTTTTCACTG	ATTTTATTTT	CATATCTAAG	GTACAAAGCT	CGGAACTAG	300
	GGATATCGCA	ATTATTCGGG	AAATTAAAA	TGGATATCAA	ACAGCCAATT	TTCAAAGTGAA	360
	ATCGTACAAC	TTGAAATGTT	CGGAGACGCT	GCTAACATCA	AAGCTACGGG	GGAGTTGTTT	420
55	TCGAGCCGTT	GAACCTTATT	GTTCTGATAG	TGACATCAAG	TTGCTTTTTG	ACGAATGTCC	480

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5	CCCCCCCCGA	AATGAATACC	CGCNATNTNC	ATTCCCTNAAC	CGAATTCCCA	AAACCCNTTN	540
	TNAANTAATC	CCTTTAAAAA	TTNATTTTTC	CCNAAGNTTT	ACNCCCGCNA	ATTTTTTTCC	600
	CAAAATGGGCC	CCTTANATGA	AAAAANACTN	CACCCCCCN	NCGAAAAANA	ATTTTCNTTT	660
	GGAAANTNNN	AAACGAATTA	TTNCNCCCT	TTNTCCCCC	CCCGAAANAC	ANTNTTTCCT	720
	CCCCCCTTT	AGGAAAANTG	TTTTCCCCNA	TTTNANANTN	TCCNCCCNCC	CCCNNAACNA	780
	AAATNTTAAA	NCACCCNTN	TTNTNG				

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1307RP

	GATCCCTTTA	TCTCATATTA	TAGTCCATAG	TACCCCGTGG	ATGCCTACCA	CACAGAGGTC	60
	CCTCTTCTGG	ACCTGAGACC	TAGATATCTT	GCGATATCAT	TGAAAAATATC	GTTC AATTGC	120
5	TCCTCCGTGA	GCCGCTTAAC	TTCCGCCTCG	ATATCAGCAT	CGGGTGTTTC	CGAGATGTGG	180
	AAGTTCTCAA	CTTTGCCCTC	CAAAAACTCC	TCAAACCTCT	CTTGTTCTCT	CAGTGTCCGT	240
	GGCAACAAC	CATAAAATTT	CGCAAGCTTA	TACAGCTTCA	CATTGTCTAG	ACTTTGGAAG	300
	TCGCCAACG	TGAGAGGGAA	TACGCCGTCC	TTACGTCCTG	GAATCTCACC	GTCCCGCTTC	360
	GGCAATGGAG	CCAAGAAGTC	CTTCTCCTCC	GACTTCGTCTG	AATTCACATA	GCGCCGCACC	420
	GACCGCTCTT	CCATCGTGTG	AAGCTGGCCC	TGAAGCTCCC	CCACTAGCTG	CACTAAGTCC	480
10	TCATTCTGGG	CGAAATCCGT	TGTATCAAAC	TTGCCCGGCG	CCCCTTTAGG	AAGGAACTTT	540
	TCGTCTAAGT	TTGCCATGTC	ATGCTTTTGC	TTGCTGACCT	GTAGCTCCAG	CACCGACTGT	600
	CCTGTCTTGG	TGATTAGGAC	GCTCTGCCGT	TTAACTAGCG	CCTGTAGCTC	CTCAACTGTT	660
	TCTTCAATGC	CTCGTCTGAC	ATAACGCACT	TCAAATTTAG	TAGAACGCTT	CTGAATATTC	720
	CTACACCAAA	CGCCGCAGAG	AGAATGGTAA	AGA			

1307UP

	GATCCACCAA	AGGGTATTTT	ACTATATGGG	CCTCCGGGGA	CAGGTAAGAC	ACTTTGTGCC	60
	CGTGCCGTGG	CCAACAGGAC	CGATGCTACA	TTTATCAGAG	TCATTGGCTC	CGAATTAGTA	120
20	CAGAAGTACG	TCGGTGAAGG	TGCTAGAATG	GTTAGAGAGT	TGTTTGAAAT	GGCCAGAACA	180
	AAAAAGGCAT	GTATTATTTT	CTTCGACGAA	GTGGACGCAA	TTGGCGGTGC	TCGTTTGTAG	240
	GATGGAGCGG	GTGGTGACAA	TGAGGTCCAA	AGAAGTATGT	TGGAACTCAT	TACGCAACTA	300
	GACGGATTCTG	ATCCACGTGG	TAATATCAAG	GTGATGTTTG	CTACCAATAG	GCCGAACACC	360
	TTAGACCCAG	CATTGTTGAG	ACCCGGTAGA	ATAGACCCTA	AGGTTAGAAT	TCTCTCTTCC	420
	GGATTGGAAT	GGCCGTGCGA	ATATTTTCCC	GCATTACAC	AAAGTCCATG	AGTGTGTGAG	480
25	GTGGTATTAG	ATGGAATTGA	TTCCAGTTTG	GTGTCCAAC	CCACCGGCGC	TGACTANATC	540
	TNGTTTGCC	CGAGGCTGGC	ATTTTGTCAA	TCCAATTCCC	GACCCAGGTT	ACCTACAGAA	600
	ANGACTTCCT	TAAACCNCTG	GATAGGTCCT	CCACGGCTAT	AAAAATTAC	NCCCCCTCCC	660
	CGTTTNTGTC	AAACCCNAAN	CNNTCNCCCC	CCTTGNGGCG	TTTTTTTAAA	GGNTTATTTA	720
	TCCCAAANNG	TNTTCCCTTT	ACNATACTAN	TGTTCCAATT	TCTATNAAAT	NTTNTCCCCC	780
	CCGTGAAAN	CTNCCCCGTT	NGCACCCCTA	T			

1308RP

	GATCTGTCTG	CTGGTACACC	GATGAACGAA	ATAATTGTGA	CCGTCACGGA	CTTCGAGAAT	60
	GCACTTCGGA	AGATAAAGCC	TTCCGGTCAGC	GATAAAGATA	GAATGAAATA	CAATAAGCTA	120
35	AACAAAAAAA	TGGGCTGGAA	TGACGAAGCA	GGCGTGCAAG	TCGAAGAAGA	AGCATAGAGC	180
	AGCAAGTTAA	ATAGGCACAG	CTATGTACAA	ATAACCAATT	TCAACTTGTT	CAAAGTCGTC	240
	CGCGTCTTAC	AGATTTTACA	CATGGAGACG	GCGGAATTTA	CTTGTTATAA	TGCCCTCTCC	300
	TGCGAACGTT	TTTTTCGAATC	TTCCAGACAT	ATTCCGTATT	TCTTCTTTTT	CGAGAAAGAA	360
	ACATATGGTA	TTTCTCTATT	CCTGTAACTT	GAGCTTAGCA	ATTTCTGTGG	ATATAGTTCC	420
	GCAAAGAGGT	AGATCCGTGG	CACCTCTGAC	AAGAACGAAG	TTATTCTTCA	GAGAATGAAC	480
40	ACGGCCGGAT	ACATGCCCGAG	AATGTATATG	TTCATAAACT	TGCGCTCCAA	CATCAATGGA	540
	ATGGATAAGA	GCCAGCGTAA	CAAGTCCCAT	ACTAGTATAG	TCCAGCGGAA	TGCTTCAACA	600
	TTGGAAATACC	CGCACATGTC	ATATCCGGAG	CTCTTTGATT	GATATAACAA	CCCCCNCCCT	660
	NTTNTGCCNC	AAAAATCCCC	CTGATGGTAC	CCCTAANGGT	TCTTGCAAAA	GCGGAACCC	720
	ATCCCCCTGGG	AGCCNAAACC	CTTTACGAGN	AACNNATTAT	GGCCCGGTNT	TTNACGTCCC	780
	TNNCTGTCTN	N					

1308UP

	GATCACGTGG	GCCGTAAAGTC	GCAGAGAAAC	TTGCAACTGA	ACTGCCACTG	GGGCTCATGC	60
	ACCACCAAGA	CGGTAAAGCG	CGACCATATC	ACCTCCCACC	TGCGTGTGCA	TGTTCCCCTG	120
50	AAACCTTTCA	GCTGCTCCAC	ATGCAGCCGT	AAGTTTAAAC	GCCCGCAAGA	CTTGAAGAAA	180
	CACCTGAAAG	TGCACATGGA	GGACACCATG	AAAGAGCGTT	CGCGTGCGGC	GCCGGGCTCG	240
	CGTGGTGTTT	GCAAGACAGG	CGTTAACAAG	GGCTCTGCGC	TACAAGAGAA	GGCGCGCACG	300
	TTACCCAACC	TGACTGTGGA	GAGCTTTGTC	AGCCAGGAGA	TGCAAAATTA	CTACCCCTAC	360
	TACAAAAGCA	GACAGCAACT	AGACGAAACA	CTGTGCAACA	TTATTCTCCC	GCCCCCAGC	420
55	CGCTCTAGGT	TGGTACTTTG	GCGTCCGAAC	CGCCAAGCTA	CACACGGA	GCAGTGTCTT	480

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5	CTTCACGACG	CTGTGCGCAGG	ACATGTCTCG	TGGCTTGCCT	TCTCTTGCTC	CTTGCAACAG	540
	CCCCCGGCT	GCGGTTAAGA	TGGTAATGCT	TCCCCCGCCC	CAGAACAGCA	ATATGCACGC	600
	CGTGCCCTAG	ATATCCCAGC	GATGCCCGGA	CTCCCTCCCT	TTGGTGACTC	TCCNGGANCG	660
	AATCCCANCC	TTTGCCCGAG	ANACACTTCC	GACCCNCTCC	ATATCCCTGC	TCTANCTGCC	720
	CNCCTCACCG	CTTCTCATA	AAATCGCATT	GTTGCCGCAN	CCTATCCTCA	TCAAGCCCCC	780
	TGATANACCC	TGNAAGAGAC	TGANTCCCCC	CCAAACC			

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1309RP

	GATCAATTAT	TAGAGGCAAT	ATCAAAGAAG	TCCCATATTA	CTGAGGAGAA	CAGGGAAACAG	60
5	CCTGGAGAAA	GAATGCCGCA	GACGTACAGA	TACACGCTGG	AAAATCAGCT	TGCCCAGTGA	120
	GTGCTCGAAC	AGCCGATAAG	AGTATTGACA	GTGGTAGCGT	GCAAGAGTCA	ACGACAAAAT	180
	GAACAGAACA	TCATACCTCG	GGCGCGAGAT	GTTGAAGCTC	GACTTGGTCC	GCCCCTGGAC	240
	CTTTTTTGAA	GAAGTTGCGC	CAGGATCCCA	CGGCGGCCTT	GCGCGACGCA	GCAGGGACTG	300
	GTCTCCAGCG	CGCCAGCAGC	AGGGAGCTTG	TCACCACGCT	CACAGAGCTC	ATCGCCATAC	360
	CCGCGGCGGC	AGCCATGGGC	GGCAATTGTA	TGCCCCACGG	AATGAGGACG	CCCATGCTGA	420
10	CTTGGGAGCC	ATGAGAGAAT	TGTACAGGAT	TGCCCAGAAA	ATGTTTACGT	TGACGCGGTT	480
	AACGTGGCGC	GCGCGAGATT	CGATGGCATA	CAGAATGCGG	TTTAGCGGCG	GCGCCCGAGG	540
	AATGTCCCAA	ACCACGATTC	CCGCGCGTTC	CGCACGAAGT	CACTGTTGCC	GGACAGCGAA	600
	ATACCGAGTT	CNCTTTCACA	ATTGCCACAA	TTTCTTTGAN	GCCGTCTCCC	GATAAGGCAC	660
	ATATTNGTTN	TTTTTGCCGC	ACTGCCGCAA	NGTNCCACTT	GCCCCCCTGG	TACTTTCCCT	720
	GAACATTTTG	ACGGATNCCC	AANCGTGCAA	ACTCTCCNC	CCCCTGTTNN	CCCATACCAT	780
15	CCANTTTTTG	GCCNC					

1309UP

	GATCAGGACC	GCGGTCNCTG	ATTGATTTGG	CCATGAGTTT	AAGTATGACC	CAGAGGGCCG	60
20	CCCTGGTGTA	TCTAATCTGA	TTAACATCGT	AGCTGGCATC	CAGAAGAAGA	CTATCGCGGC	120
	GGTGGAGGCA	GATATTGCTG	GATTTAAGGA	CCACGCAACT	TTTAAAAACT	ATGTTACAGA	180
	CATCCTAGTA	GCTGAGCTGA	GGGGGCCCCAG	AGAGGAGTTT	GCCCCTATA	TGAATGATAA	240
	ATCATACATA	TACGAGGTTG	AGCGCAATGG	GGCTGAGCGA	GCAGGTGCCA	TAGCTGCTAA	300
	AACCTTGGCA	GAAGTCAGAG	CGATAATGGG	TTATTAGTTA	TATTCAGATT	CCAATTCTGT	360
	CTATAGACTA	TAAAGATATA	TAAAGATATA	TCAAGAAGAC	CAAGAGCAGA	TGCGTAACTG	420
25	GTTGTCACTC	TTTGGACCTG	CCGGATATCA	GCACATGCAA	CCAATATCTG	CTTCAGCAGT	480
	CCTCCCCTTT	CTCGTTAGCT	ATTGTGCCAC	CTTGATTCT	CCATCCGTTA	TACAGCCAGC	540
	TCAGCACATC	ATCCATCTAT	TTTGAGCCCC	TTCTGCTAGG	CTGATGCAAT	AGACTTCCAT	600
	ATTGTGTAAT	CATTGTCCCN	TTATTTTPTA	GGNTACCACC	ATCTNTTTTC	CNATGAAAAN	660
	CGTGACAATC	CNCCNGTTTT	TCNACCCTCC	CTCCATNAAA	TNTCTTTTCT	CGTGGGTTTC	720
	GGATCAANCC	CTNNGGNTCN	TCCCCTNCGC	CTCCATCCNG	GNATTTACAC	CCNTTNTTTT	780
30	CTCCCCCTC	ATNAANC					

1310UP

	GATCCAAAAA	AATTTTAAATA	CTGAAAAAGA	AATGCCACAA	CTAAGCTCAG	CTACCTTAAA	60
35	GAATCGGGAC	CAAAGCTGTA	AGGCAACAGC	TCTTCCAATG	TTGCTGTCAG	AACCTTGGAC	120
	CCGTCCGGCGT	TCATCATAAT	CACCGTGAGC	TTCTTCGGAT	CAACGAACCTC	GCGCAGGACC	180
	TGCCGGGCAAA	TCCCACACGG	GGTCACGACG	TGGGACGAGT	CCCCACTCAA	TGCGATGCAG	240
	ACCCAATTCCG	TATGCCCGGC	TGTTACCGCC	TTTACGACCG	CTGTGCGTTC	CGCGCAAATA	300
	CCGGCTGGGT	AACCTGGCATT	CTCGACGTTA	GCGCCGACAA	TATACTCGCC	TGACGCTGTC	360
	AAGATGCAGC	AGCCCACGCG	GAACCTGGAG	TTATGGGCTG	TACGAGAGCT	CCTTCGCGGC	420
40	TAGTGCTCGA	GCAACCGCGC	CCTGATATGG	CTCTCCCTGT	GTGCTTGGCA	TTGGCTTCCG	480
	TGGCGTCGCC	TCCTAGGTAT	TGGGGTTCCC	CTAAGTACTG	GCTGCGAACC	CTTATGTTTT	540
	TTGCAGGGGA	ACGAATTGCG	CCCGAACCGG	GTGAATCCCG	GGAACATNCA	ANTACCCNCT	600
	TTTGGNTNNC	GGGNAAAGGG	NNANNNTCCN	NNCTTNGCNC	CGGCNGGAAN	AAANAATGTT	660
	AACCATGTGG	ANTAAACCTT	TAANATGANN	CTTATGGCCN	GTTTAACTTT	ATCCCCCCNC	720
	CCCCCTTTT	AAANGTNNNA	NCCCCGCCNT	TNTACCTCTA	NNCCNGCGGG	GGNGCANNAN	780
45	CCACAAATNN	TNTGTTGNGC	GCGNGCGGTN	NCTAATATGG	AGCCTNNGGN		

1311RP

	GATCTTATCG	TTACAGCTAC	CGTCTGCAAG	AATCTGAGAC	ATAAACTTGC	GCTGCGACGA	60
50	GTTCTTGGTA	AAATCTTCGT	AGTACTGTGC	GTTGTCCGCT	TCCAACGCTT	CCTTCCCCCG	120
	CTTGACAGC	AGCTCCACCT	TTTCGGTGGA	GAGCGGCTCT	TGCTCGCGAG	AAGCCTCCGC	180
	GTCTAGCGGC	ACCTCGTGCC	AGGGCATGTC	CGCAGGCACC	AGAAGGTTGC	CGCTGCGAAC	240
	CGAGCGCAGG	TGATCGACCA	TGCCGCGGCT	AGGTCTCTCC	CGGCGGAGT	CGGCATCGAA	300
	CCCCGCATCG	GACTCGCCCG	CCTCTCCGGC	GGACTCGGCG	GCATCGCTGT	CCTCTCTGGC	360
55	TTGCTCTTCG	GCTTGCTCCT	CGGCTTGCTC	CTCGGCTTGC	TCCTCTGCTT	GCTCTCTGGC	420

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5	TTGCTCCTCC	AGCGAATCCT	CCGGCTCGCT	GCTCTCTGCT	GCTGCCGCTG	CCGCTGCTGC	480
	CGCCGGCAGC	CCATGTTTCG	AGCAGCCCCG	TGACGTCGTT	CTGCAGCCCC	GCATCGCCGT	540
	CTCCTTCGTC	GCCGCTGAAT	GCCTGTTTCG	TGAGCTCGTC	TGCGTTTCGCT	CAGCCCTTCC	600
	ACAGCGCCAA	GTTGTTCTTT	CTNAACCCCC	CANNGCCAAT	NGTTCNCGGG	CNTCATCCCC	660
	CNTTNTTTC	CTGGTTTCCC	CTTTGGTNGN	CCCCNGGNAN	ACTTTTTCCT	TGGCTTNCNN	720
	CAATTCCCTT	TTCATTGGT	TTTCCCCCA	AAATTTTNAN	ANNGGGTTAN	CTNNTCANN	780
	NGGCNGNNNA	GAGAAACCT					

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1311UP

	GATCTTCTGA	TGCATATTTT	CGCTCTCACC	TTCCGCCGTTA	AGTTTTTCCA	TGTAGATAGC	60
	TCAAAGTCAT	CATCCCCGTC	ATCTTTTTTCA	GTGTATAGAT	TCTGTGATAC	TTCTCCCTCT	120
5	TCCTCTTCCT	CTTCTTCCTC	TTCTTCCTCG	TCTATATGAT	CTTCGCCTGT	CAGTTCAATG	180
	TCTATTCCAT	AATTGGGTTT	AACTTTTCGGC	TTGGGCTCCT	TTTGCTGGCT	ATGATCTTCC	240
	TGGATACGTT	TCTGTCCATC	TGCCAATCCC	GTTTTCTCAT	CAGTAGCTTG	CGAACCCGGC	300
	ACAGTATGGA	TTTGTTTTGA	GCTAATTGCA	TTACTACCGT	CACGATCTTC	AAGAGGTCTT	360
	TTGCCAGCAT	GACTTTCCGA	AGATTTCGAG	CGTTTACCTG	CAGGCGCACT	CTTACCCCGT	420
	TTATCTGCAG	GAAATGTAGT	CTCATCGTCT	TCATCTTCCT	GTATCGTCTG	TATGCCTCTC	480
10	CTCACGATGC	CGCCCTTACG	CTGTCCCTAC	ACTCTTCATC	ATCCTCCTCC	TCATATCTAC	540
	CTCTTTTCCA	GTCTTCTCCA	CTCATACTAT	CTCTACCACA	TATCAGGATA	ACGTATAATG	600
	GTGTGACTTT	TTTGGATAGC	ATCNCCTGGC	CTAGGAANGC	TNNGGGTTCGG	AATATAATTT	660
	AACATCTTCC	CAATCACAAA	TTNCTCAGTA	ACNGTGGTAA	ATTNAAACGN	AANTTTTTTAA	720
	CTTTCCATAC	GGTTTANGNC	CCATGGCTCT	TGAAANCGGA	AAAATCCGGG	GCCCCCCTTN	780
	GAACCTTGTTT						

1312RP

	GATCATTTCTC	ACCAGTACAA	ATGTATATTT	ATATGTAATT	GTCTCTCTCT	GCTTTTGCCA	60
	TATTTTTTTTA	TTTTTTGTGG	TGACAGCGTG	CACTGACGCT	GACGCGCAAG	CCGCAGGCGC	120
20	GATTCTTTCGC	AACTTTTCGT	CAACGCGCGA	CAGACAGTCA	GAAAGTAATA	GGAAACAATT	180
	AAATACGTTG	TTATGTTATA	TGAAGTTATA	CATAAGTGGC	TGCCATCAGG	TTATATATTG	240
	CTTTAAATAA	CCCATTCGTC	TGGAAACCTC	CTCTGTGAAT	GCCTCGCTCA	AACCGGGATG	300
	GTTCTGTTCG	ATCTCGGGCA	AATATPACTG	ATAATTGATC	TACAGCGTCT	TTTGTCTCTT	360
	GAGTCCGTCG	TCTATCACGG	ACGCGTCGTA	ACTGTAGCGG	ATAACATGTT	TAAAGAAGTT	420
	TAGTTCCCTT	TGTGAAGGAG	CAGCAGCTTT	GAGTGCCCTT	TCATCATAAT	ATTGTTCAAG	480
25	GTAGGAGAGG	AGGTAATGTT	TGTCTCTGGG	TTCTTTGAAG	GGCTGGATAA	TAATGACTTG	540
	ATTGTGACTC	CTGGTGATGG	TACATTTAAC	ATGCCAATCC	CAGTTCCCAA	GTTAGATTCT	600
	TACCGGTTTT	GTTATACCTT	GTTTNATAAG	GGTTACTTTG	CNCCCCNACT	TGCCAAGAAA	660
	TCATCTTATC	CCTTTGANAG	GTCACCTGTC	CCTTAATTGT	AAACCTACNC	CCTTTACAAT	720
	CTATGCTTAT	ACCCNGCCAT	TGTCCCTGAA	GGATTTTNTT	ATTAACCCCTG	CNCACATCCC	780
	TTGGCTGG						

1312UP

	GATCAGGCAA	AGGATTTCTA	CTCGTATGTT	GGCAAGAACC	TGTCACAGAA	ATCCGACAGC	60
	AAGTTGCTTC	CTCGGAGGAT	TCAATTTGAA	CTTCAGAGGT	TTGACTATTT	TCACTCTCTA	120
35	CTCCAGTATG	TTGTAGGATG	TAACGCTCGT	GATTTTGCTG	TGTCACTTGC	GAGGTTTCAA	180
	TCTTCGATAG	ACCCTAATAA	TAAAAATACA	AACATGCACC	TGCTGAAGAA	GTATCGTTCC	240
	CATTTCCTAC	CATTTAACAA	GATAAAGAGC	CAACAGCGCA	TAAGGCTTTC	TAAAGTGTCC	300
	AACTATTCTG	ACTTGAATGA	CTTCTACCAA	CTTGCAATCAG	CTACCTCAGA	ACCAAATAAG	360
	CCCCTCAAA	AAGGACTCTT	ATGGTCTTAC	AGGAATAATG	GATGGCATAA	ACAGTGGGTG	420
	GTAATAACA	GATCACAGCT	CTCAGAATAT	TCCGATTGGA	AGACGAAAGC	TAAGGTGCTC	480
40	AGCCGACCGG	CCATTAATTT	GACGTTTGTG	TGTGTTAAAC	GTTCCGAGAA	AAAGCCTAAC	540
	GGATTTGATA	TCATAACTAC	CGACGGCGAG	GCTCGTTCTT	TCCAAGCAGA	GTCAGAGGAT	600
	GAAATGAAGC	AGTGGCTGTA	TGCGCTTCAC	TCTGCTGTG	GGATAATAGC	CATTGAGGAG	660
	ACAGATGAGA	ACAAAGATCC	ATTGTCTATT	GTCCGTAATG	CGGATCCGTC	AAATAGTGCA	720
	TGCTGTGACT	GTCGGAGCGA	TAAGCAAGTG	AATGGATATC	TCTGAATAT		

1313RP

	GATCGTGTCT	TGCTGACTTG	CATGTCTAGC	TCAGTTCTTT	ATTACCCGCC	TCATGTTGAA	60
	ATTTTCCAGG	AACCATCGCA	CCAAATGTAC	CGATGATATA	GATTACATCT	ACCTTCCGCG	120
50	AAGCCTGGAA	GGAAGCTAGA	CCTCTAATCT	AGTAGCTTGC	CATGTACATC	CCGCCATCCG	180
	ACCCGCGAAG	ACAGCGCAAG	GTGACGGCCG	GCCAGCTCTG	CGAGCTGTGC	CACGCGCGCA	240
	AGGCGCTGGT	AAAGCGCCCC	AAGAACTTGC	AGAAAGTCTG	TAAACTGTGC	TTCTTCCATG	300
	TATTGGAAC	CGAAATCCAC	AATACCATT	TGGAGAACAA	GCTATTCCAG	CGCGGGGAGC	360
	GGGTGGCAGT	TGGCGCGTCC	GGTGGGAAAG	ACTCCACGGT	GCTTGCGTAC	ATATTGAAGC	420
	TGCTCAACGA	AAGACACGAC	TATGGTCTCG	AGATTGTGCT	TCCTGAGCAT	CGACGAAGGG	480

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	CATTGTGGCT	ACCGAGACGA	TTCCGCTAGC	TACTGTGAAG	CGCAACCCAG	AGCAATACGG	540
	TTTGCCCTG	AGATTGTGTT	CCTACAGGAC	CTCTACGAAC	TGGACGAATG	ACGAATAGTG	600
	CCTGCGCCCN	GGAATGCNCA	ACACTGCNCC	TTACTGCGGG	TTTTTTTCGAC	CCAGCGCCTG	660
	ATTCCGGGGG	GGNAATGCTT	GAATCCACCN	NTTTGTTAAN	GGCCATACCC	GAAAAAATGC	720
5	CNAAAGNGCC	CANAAATCCT	GGCCGGGAAA	TTTGGCNAAT	CNAAATAACN	CTTTTCCCCA	780
	AANAGGTCCC	GNTAANNNTT					

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1313UP

	GATCAAAAAA	GATACGGATG	TTATGCTTGT	TAAAAATATTA	TATGCTATAG	TACAACGTAT	60
	CGCGTCAAAAC	ATAACGCATG	AGGACTATAT	TTTTAATTCA	CTAAGTTCGG	CGAAGCATCT	120
5	CCGGAAGAAA	TAGCCTCCTG	TATGGGGCTA	AGTCCATAGG	CGTCGGTTCG	GCTCATCTCT	180
	GGAGACTTTA	AAGAATTAAAG	TCCGAAGGCT	AGGCTCCCAT	ACCCCAAAGG	CGAGTGGGCA	240
	CTTTGTTCGA	GAGATCCTTC	TGACATAGCC	TTTCTTAGTG	ACAGTGGCGG	AACATGGGCG	300
	CGGGAAGGAA	TACTTTGTCC	GTGCAATGAA	CCCTCGGATA	AAGGCCTACT	TAGCCCGTTT	360
	TTGAAAAATG	TGACAGTCTT	GTTCTTGATA	TCTAGCTTGT	ACCTCGTTGG	AGTGGGTTCC	420
	TTTGCAAGAC	CAGTGGGTTT	TTCCGAAAAG	CTTCGCGTCT	TCCCGGAATG	AATTCTGAGT	480
10	CCTGGTAGGG	AACATCCGAG	ACTTCCCAAA	AACCNITTCN	CTNTCCATTT	TCNAAAAAAT	540
	GGAAATCNCN	CCGGCCATTA	TNGATCTCTT	CCCAAATTAC	NNCNCNCNCC	TCACTTTGNG	600
	ACTTGGGNAT	ANAGANCCCC	NTCNACCCCC	TCCAAANAAA	AAAAATTCTC	NTNGTGCCCC	660
	NTNATTCCCC	CCCGGGGCCN	NNTTTTAATT	CNGGGGAATT	AAATTTTGTA	TCCNNGCNGG	720
	TNGAAGCANG	TTATNGCCCC	CCCTTGACCC	ATNTTTNACT	TNTTAATTTT	TCCCCNNNCG	780
	GNTGGAAACT	TTGCCNAAAG	GCANGCTTTT	TGAACCAGT			

1314RP

	GATCCATAAA	CTATCTTCTC	ACTCGCCGGA	TGCAAAGTAT	CAAGGAATAG	GCGACAATCG	60
	GTAATGATTG	GCTCGAGCTC	ACGCAGATAT	TGGCGCACTT	CTGATATCCG	TGGGTTGTTC	120
20	GATGCATGAT	GCACATGAAT	AAAAGGAAGA	AGCTTCGAAA	GAGGTACACG	GCCCCGGTAG	180
	CGTGTGATGA	GAGCTGTTAG	TTCCGGCTTCA	ACATCAGCAA	GTTTCTCTAT	AGGGGACGCA	240
	GGGTGCTCAA	CATCATTTAT	TAGACACTCC	AGCAGTTTGT	CTGAAAAAAA	GGTGTGCATG	300
	GACAAGTGCA	CCTCATCTT	TGAGATGCCG	CGGATAACGT	CCCTCAGCGA	CGCCAGTCTC	360
	ATCGTGCAAC	TGCGTCAGAA	AACTCTTGAT	TGATAGCGTA	ATGCAGTCAG	AAGAAGTCGT	420
	TAAAGCACT	TTCTGATGCC	CAGTGAAACC	TAATCCTCGT	CCGATATATA	ATCGAACGTG	480
25	TTAGCAACAA	TCTTCCATAT	CCGGAAGTAG	TTTTACAAGC	TTCTTACGAT	TTTCCACTCC	540
	TCGATTGAAT	ACTCCGGCCN	AATTCTTTTA	CCATATACAC	CCNNTNCNGG	GCTTTTGCAC	600
	GAATTCNTTA	TTTGTTGAAG	AACTGGACAC	TTTGAAACTT	TGCACATTCG	NGANTCCGAA	660
	ACNCTTTTCN	CNCCGAACCTA	ATNTNAACCC	CAATCCTGAC	CCAATACACT	CCCCCCCCAA	720
	CATGACCCCG	CACANGATTN	TTTTTTCCCN	AGAATTTTNT	NAACTTNTTG	CCCCCTNANA	780
	CATTNTAAAT	C					

1314UP

	GATCTTGCTG	CAGACAGATG	CCGCGGAGCT	ACCCTTTTGA	ATCCTTATAT	AAACCCTTTT	60
	CCAGCTGTAC	CGCAGTAAAC	TCCCCTTGCT	TCAGGAGCTC	CAGGCTGCCA	CGCACACTCG	120
35	AGGCCTACAC	GCGTGACTGC	ATTGGCTTCT	GTGCGCACAC	GGAAGTCTTA	AACGAACCTC	180
	AATCCCATCC	AACCACTTCT	GCTAACGTAG	CTACTTCTGG	CCAATCGCTC	AGCCCCATAC	240
	CGTCGAGGCA	ATCTTTCCAA	GCCACATAAA	CGAAACCTAC	ACAGTTACTG	CGCAAGGCAA	300
	GTGCCAAAAG	ACCACAGGTT	CCGCAGTACC	AGAGCAAAAA	GCTTACCTGT	CAACACTTCG	360
	AACATTCGCG	TGGCCTTAAC	CATATGCCAC	ATGAAGCAAT	AGACCCCTAA	AATAGAAAGC	420
	GATTGGCGCG	GAACAGACAT	TCCTGGTGTT	GTACTTGGA	CTCACATAGG	GGCTGCACAC	480
40	GTGCTTAAGT	CCTCGCTTGC	AGCTGAGGCC	ATGTGCCCCCT	CATTAGTGAC	CCACGTTGAT	540
	CTCGAGCCCG	CAAATGATCG	TCAGCGTGCA	TCCGACTTGG	CATTGCAAGG	GATGTTGATC	600
	CCCTGANGGG	AGGCTTGCAA	CAGCGCCNCC	CTTGTTCNC	ATCCATAGGC	TGTCGAGGCC	660
	GGAAATGATC	NCTCTCCAGG	GGAAACNCCC	CCCCAACGCC	CCATAGGGCC	CNCCCTGGGN	720
	TNTTGCCCGG	ANACTCCNAA	NCNNGGTTTA	AANNTTTTTT	TTAAANGNCC	CAGTGGTNTC	780
	AAGGCCCCCN	NGCCTTTTTT	CANCCCGCAN	TTNCTNAATT	TTTGNCNGCG	GNA	

1315RP

	GCGGCCGCTC	NNCCAACCTAG	TGGATCTTCA	TTTGTGGCCC	GGCCGACAGG	TTACCACCGC	60
	TTTTCTCTCC	CGTCAGCATC	TCAACTAGCT	GCTGTAGCTG	GTACTCCCTG	TCGCCGCGGA	120
50	ACACGTTGCA	CTTGTCTATT	GCTGTGCATG	AAAGATCGTG	CAGCTGAACT	ACATTACCGT	180
	AAGTGATCAG	CCCAACAAGC	GCGTTGGGGG	GCAGCAACGA	CAGAGAGGTG	ATGATCGAAT	240
	CCTTCAGCGC	CTGGAGGTTT	TCCCTCCTCG	CGGTTACGTC	CACGACGTAG	AAGAAGATCG	300
	GCGCCACCTG	CACCGGCCGA	TTTGTGATGT	ACTCAACCGT	CGTGGAGTTC	AGTTCCGCGG	360
	GCATCGCCTC	CTGAGACATG	TTCCGATAGT	GCTGCGGAAG	ATGGTTCCGC	GTCCCCGCAC	420

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	AGAGGGCACG	CCCACACGTT	CGACCGCACG	TCGATCTCGC	AGTACGGGTT	CAGCACCCGC	480
	CTTACAGTGT	TGGCCCCACC	CACACACCAC	CCGGTTTGTT	ACGAAAACCA	CCGCCCAGCT	540
	CCCTCCAATC	TCCTTCCACC	GCGTTGTTAC	AGCATCCCCN	CCGGCNCAC	GTTCCCTTGTT	600
	CNCGTTCCCG	TCCGGGAAGC	CCGGGAAAAC	ATTCCCACGA	NAACCGCACC	CCNTTTAGTT	660
5	CTTCCTTCCT	NTTTCGAANC	CACCCCTGAA	CCGNGANCCA	CTTTTANNCC	CCTTTACCCC	720
	CTTTGATCCC	CNCCGAACCC	CCNAAATGGA	ACCAANNAGC	CCNTAACNNN	TGCNAAAACC	780
	GANTTGCCCN	TTTCAAGGTC	CCATCCTTTG	CCCCCGNGA	ANAAAANTNC	NCCGCCNA	

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1315UP

	GATCTTGGCG	AATATCGGCT	CCCAATCCGT	ACCCATCCAC	TTCGACACTA	CCGACTGCAC	60
	CGCCAGCGTG	TTCAATCGGCA	CAAGCTGCTC	TCCTAGGCTC	AGCACCGGCG	GCACCACAAA	120
5	GTAGAACCGC	CGCGTGGTCT	CCAGCTGCTC	CCGCTCGTTG	CGGAACGACA	CGTAGTAGCA	180
	ATACGAGCCC	GGTACGTACA	CATCCACATC	CACGCAGCTG	TCCTCCAAGA	AACCTGCGCT	240
	CAGCAGATGC	TTGTAAAACT	TGTTCCGCTG	GAACCTTCGT	TTCTTTTCCG	GCGGGCAGTT	300
	GGTCCACACT	AGCCCGTCCC	GTGTACACAG	CGATCCGCGG	GCTACCACCA	ACCGCACCCG	360
	CAGCCCGCTG	TCCTCCCCAG	CGTCTCGGCC	AACAGGTAAA	CATGGCAACG	TGAGCACACC	420
	CTTTCCAACC	TCTCCTCTCA	CCGGCTCCCC	GTTGTCTGCT	AATCTCAACA	GCACGGTTTT	480
10	CATCGCTGTT	TGCGCCCTTT	GCTGCGATCT	AAAGGAAGCT	TCGCTTGTC	TGCAGCTGCT	540
	AGCCTTGGGA	ACTGCCATAG	TCCTTTGACC	TTGACGCCGT	GTTAAATAGT	GCATTTTCAGT	600
	ATACACAATT	TGACTTACGN	NCTCCNCNG	TGCTAACTGA	GGGANATTAC	CCNAAACCCG	660
	GANGGGANNA	TAAACNGNTA	NAATTTNCCC	GGTNGCACNC	NTGCCNTATG	NTTCCNTTTT	720
	TGGAAANAAA	CCCTNNGGNN	GGTNGGTTGN	NAAAAATTGA	AAACCCNNGN	TNAATACTNC	780
	NTTNACNTTN	TCGGAANAACA	AAANTNCGGC	CCCCCCGN			

1316RP

	GATCCAATAT	ATGCGATGGT	CTGAAGGGTT	GTCCACGTGA	GTAGCTTAGC	GAATACTTTG	60
	CCAAGGCGTC	TGCGACATCA	AGAAGAGTCT	CAAGATAATA	ATAGTCCCTT	TTGGGCAGTA	120
20	AGCGAAGATT	GTTCTCGGCC	TTTGTCATTT	CTGGCCGGTC	CCTGGACCCA	TTTGGTGGCG	180
	TGTTGAAAAA	GGCCAAAAAG	TACTTCAAAA	TGACCGATTT	TTGACCTGG	AAACCTGCCT	240
	GGAGAGAGAA	GTCGTGCAGC	AACGTAAATT	CACTGAGAGA	CAGCAGTGTT	TCGATAATTG	300
	CAGATGCTTG	ATTCTCCTTC	GTTAATTTTG	GGTACAATTT	AGATGAGCTT	AATAAAAAAT	360
	GTAGTGTCTG	GACAGATGCG	GATTCAGCCA	ATAAATAATG	GCTGATGGAT	TAAATGATGC	420
	CAGCTGCGCC	AACTCATCTG	CATTGCGTAA	GGAAACGCAAT	GATTTTCAGAC	TATAGTTATT	480
25	GGCAGCATCC	ATGTACTTTG	TTGTACTCGA	TCAGGTCTTT	CACTGAGACA	CCGTCAGAAA	540
	GCGTCACCGT	CTCGTCAATG	AGTTAGAGCC	ATCCATAGAT	TTCCCCGAGG	CAGTTCCCCG	600
	CATGAATTTT	CACCCACTTC	CCCCCGGTC	CATACCGCAA	TTTGAACATT	CCCGGTCAAT	660
	ACCTTCTTCC	TCCCCCGGNT	NTTCCNCAAN	AGGGAAGTTA	NATTCCTGNC	CTTTTTTTTN	720
	AAAACCCAAT	TCNCACTTTT	TCNNGGAANT	TTTCCGGGTT	GAGNAAAANT	CCNACNCCCC	780
	GTNGCCGGTT	TAATTNCC					

1316UP

	GATCAACACT	CGTACAAACG	AATATAGTCA	CATGACCAGA	TAATCGTCGT	GACTGGCACC	60
	CATACATCGG	CACCCATGCA	CCCACATGAT	GGTTTTCTTG	GCGGGTGGGC	CGTGCTGGGC	120
35	GGGCTCCCCG	GTCTACGCTG	GCGGGTGTAG	GCGGCCGGCT	GGGCGGCCAG	GCGGAGCAAT	180
	GGGCGGAGGA	ACAGCGAGCG	CGCCAGCAGC	GGTCCGCGAG	TGGAGCGTCC	GGCATGTGTG	240
	GAAAAATTGT	AGAATATAGC	ACTGTTATAC	TGAACAGTAT	ATAGAAAGAG	CACCTCTCTG	300
	AGGTTTGAAC	ATACTATACA	AGCTCCCAAT	CATCGACGAT	GGCTGTTGGT	AAGAACAAGA	360
	GATTGTCAAAA	GGGCAAGAAG	GGTTTGAAGA	AGAAGGTCGT	TGACCCATTG	ACCAGAAAGG	420
	AATGGTACGA	CATTAAGGCC	CATCCACCTT	CGAGAACAGA	AACGTCGGTA	AGACCTTGTC	480
40	AACAGTCCAC	CGTTTGAAGA	ACGCAGCTNA	CTTCTTGGA	GGGCNNTTTC	TTCAAGGTNT	540
	NGCNTTGGCC	AACCANCNGG	TTTNTAGGAT	TNNCNCTTCC	NAAAAGTTCA	ATTANAAATT	600
	TACAGGTCCC	NGGGCAAAAC	CCTTTNGACA	CCTTCCCCGG	TTTGGGATTC	CCCCCCCCNA	660
	CATTTTAAAT	CAAAGGNCCA	AAATTTGGCN	ACCTTAATTA	NGGNATNTCC	TNTTNAAACC	720
	NGNAAAAANN	TNTNTAATTN	TTTNNCTTGT	CNTNCCCAA	AAAATTTNCC	CATTTNAAAA	780
	ACNTTTTNNC	CNTCCCCTCN	NTTNAACNCC	NAAGGTTTTN			

1317RP

	GATCTTTATC	TTTCGATGAT	ATCTTTCTCTG	AAGAATCGAC	AAACACCTGG	TCCAGCAAAT	60
	TGGAAGCTAA	GTCTCTCCAA	TCGGATGCAA	AATAGTTGAC	ATACCGCGCA	TTTAACTTCA	120
50	CTAACCGGGC	GGCACCAATA	TCCTCCAGAA	CTGTATTTAT	TTGCTACGC	TGAACGATTT	180
	GTTCAAATCAG	CGTAATATTC	GTCAATACAA	AGAACCCAAAT	TCTCTGCATC	TGAGGTATCC	240
	TTTTATGTGG	AGCTCCGACT	TCGGGCTCTA	AGTTTGGATT	TAGAATCTTT	TGGGCCCTTG	300
	GCTCTAGAGA	TATGGTTAAG	TAATCTATAG	CATCGCTGAA	GGAAGCAAGAG	AGCAATTGCT	360
	GTGCATTCTT	CGGTGTCATA	GATATCGTCC	AAACATTTTT	TGATTCAATTG	GGCAGCCATG	420

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	ATTGCGGAGT	CATCGATTGT	ATAGTAGCAA	GGCAACCAGA	CTTGTATTCA	CTAAACTTGC	480
	GTAGTCTGGA	CATAACATCA	ACTGTGGCCT	CCAGTTACAC	CATTATCAGT	GGTAACTGAG	540
	CCCAGAGAAG	CGGTTTTTGA	CCGATGTACT	TGTNTCNATC	TTTTTGAACA	NGGACNCGGA	600
	AATTTTCATTT	CANGTCNGGC	TNCNCTCC	CAAAACNGTT	CCNTGGTTCT	NGTAAAGGTT	660
5	TNNCCCTAAA	AATNGGGNTT	CCCNGTNAG	NTTCCCCCCC	AATTCNAACN	NAANACCNA	720
	TTTTTINTAAT	TCCCCCNCCA	AAATTCAATT	ATACCCCCCN	TTTTNGGTAT	TNTAAATTTN	780
	GGGGGNCNCN	NTTCCAAAAA	GGNGCNG				

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1317UP

	GATCGTTCTT	ATATTTGTTA	AAGAAGAGTT	TTCTTCAAGC	ACTTTGAGCT	GAATAATCTT	60
	GTCAAACATA	TTGTCAGGGC	TCCGCTGGTC	GTAAACCGCG	CGAAACCTCT	TGAGGAACCC	120
5	ATCTAAGATC	ATAATTGCCT	TTCTGGCTC	CGATAAAGCT	TTAATAGATT	GATGGTTGTC	180
	GCCTCTTTCT	GCAACGCGGG	ATTTAGTTAT	TTCTCTAACG	GATTCCACAT	CCTTGTAAGT	240
	CAAAAATGAT	AAACACACGA	CTTTGACTGC	ACTGTTGTAC	GGAAATATAAT	TCTCCTTCAT	300
	CTTTTCCAAC	CATTGCAAAA	GTGTTTCCG	CTCGAACGGC	ATATGATTGT	TTCTGTCCAC	360
	AATTACAGCT	CTTGAAGTAT	CCTTTGTAG	AAACTCTAGC	GCGTCACGCA	TCAATTTGCT	420
	CTTATCCTTA	GTAACAATAT	TATCATTCTG	TATGTGGCCC	CAGGACTCTC	CAAAAATATT	480
10	CTTCAATGCC	AGCGCGACTG	TCGTCTTTCC	ACAACCAACC	GTGGCCACAG	GGAATGAAAA	540
	TGAACCTGGT	ATCTCGTCCT	ACCTTATCGA	GCTCCAGATG	CATACTGGTC	CCCCCNAGCT	600
	CCTTTATATC	CTCCGAATTT	CCATAATATC	CAATCCCAAA	ATCCCCAAAT	CNTTCCCTAGG	660
	AANATTTTCC	NNNACTNGAA	ATCCCCCTAC	CTTGTTNTATA	CCCCCTGNAA	ATTINGGATN	720
	TTGATTCCNG	CCAGGGANTA	CNATTCCCA	TTTTTNTTTG	TGANNAACAA	NGCTTTTGAA	780
	TTTTTGTCCC	CNCCNCTGT	GNANTACCN	CCCTCCTCCC	CCCCTNTTTN	TTACN	

1318RP

	GATCGCCTCG	TCGTTCCGCC	GGCTCGTCAG	GCTCTGCGCA	AGGAACTGCC	CGAACCGACC	60
	AACCAAACTC	GGCATGTCTT	TCGCGTAGAT	GAACCCCTGC	TGCTTGCTGT	CCACCGCATC	120
20	CCACACGTTG	TTCAGAATAC	CCTCTGCCTC	CGTCATGACT	CCTGAGCCGT	GAGTGCAGTT	180
	CCCAAGGCTT	TTGTTGTGCT	TGGCAGTTGA	AACGACGCTC	GCAGCGGCAA	AACAACACCG	240
	GCCCCGCGCG	AATTGCTCAC	GTGCTCTCTC	GCGCCACATA	AGCACGCACA	CCCTGACCGC	300
	ACACGCACCC	TGCAAAAGTAG	GTCAACACCA	AAGGGGCACC	CCGCCGTGACC	GTTCCTTGCG	360
	TCGAGCAGCC	GCCCGCCACG	CGCCAACGGC	CACCAGCATG	CGCGTTCTCC	GTAGCCGCCG	420
	GCGCCGTTGG	CCATCGCCGA	AAATACCTCG	GTTTGGCCCA	CTGATGCCGT	CTGCCGTCCG	480
25	CCGCGCCCGC	CCGCGGCCCA	GGCACCAGTG	CCTGGTCAGG	GCGCCCGGGC	GGGCGGGGTC	540
	GGTCACGTGT	GCGGTTACCC	GGGCGTCGTT	TAGATCGAAG	GTTCTAGGTC	TGTGCCGTGC	600
	TGCCCCCTGT	TGTGCTACCG	CCAACAGTGG	GCGCGGCGTA	CGCGGCAGGC	ACCACGTGGC	660
	AGTGCGTATC	ACGTGAAAAG	AGGGCGGGTA	ACGGTGTTTC	GCCGCTGAGA	CACATCGCAA	720
	CTATTTACAG	GGCACTTAGG	NGTTGACC				

1318UP

	GCAAAAAATG	AGGTCCGCCA	TGCGCGGCGG	CTCGCGCCCG	TCCGCGACCA	AGCTCCGCCG	60
	CCCGTCCGCG	CCCCACAGGC	ACCAGCTCGC	GCGTGGCGCG	TAGCTCGCGC	CCATCGCGCA	120
35	GTCGCGCACC	GCGCCCGCGC	GCCGCAACGT	CCACATGTCT	CGCACCACCT	TCTCGTCGAG	180
	CACACCGCCC	CCGCACGTGG	CCGGCGCTGG	CGCCGCCCCG	GGCACCTGGC	GCTCGTGCGC	240
	AGCCAACCTG	CCTGTCTATG	ACAACGCTGT	AGGAATGCCC	ATCTTTGCCC	TTTCCGCTCG	300
	CTGCCGCTGT	TACGCTGCTA	TACGCTGCCT	TATATACCTG	CCAGGAGAAA	TGTCTGCTAC	360
	TATCCCCGCG	AAAATATCCA	TCCGATGCGA	ACGGCGGAAC	TCGCCGGAAG	CCTGGAGCCC	420
	CGCTCTGTCT	GATCGTATGG	AGAAACAGCT	AAAAATCGCTC	AGCTACTCAT	CTCTGGCGCT	480
40	GTGGTTACAG	GTGCGCGCAA	TGCGGCGCAT	GCCCAAGTCC	GTTTTTTCTC	TGTGGCGGGG	540
	CCAGGGAGAG	CGGGGCGCAG	ACGGCCAGAT	TTTGTGCACG	GCAGACCGCG	TTGGCTGTGG	600
	TAACGCGTAT	GAAATACGGG	GAAGCGGCGA	TTACCAAGTGG	GTTTTCGCTGT	CAGGGGTGCC	660
	TGGGGCGCGG	GAACGCGGTT	ATGGTCTATA	TTACAGAATG	TGTACAAAGG	AGTCACGTGG	720
	GGGGGGTCCG	GGGCNGGACA	GCTGCCTCTG	TTTCTTCC			

1319RP

	GATCTTCTTG	CCTTTTGACC	TCTTCATTAA	TCTTCTCTTT	TAACTTCTTT	TCCGTGTCAA	60
	GAAATGCTGT	TAGCAGTTCC	TCTTCTCTGT	TCCGTTTCTT	CCTGTTCTCT	CTGCCAAGAT	120
	GCAGCATCGA	GTTTGTCTGG	ATGGGCAAGA	AATTAGAATT	GATATCGCCG	ATCCCTACGA	180
50	AGAAATCGTA	CGGCACAACC	TTAATGAGAT	TCTCGCACCA	GTTCCAGACA	TCACCTCTAT	240
	CGTCAATGAC	TACGACCAATC	GACTGGTCCA	TCGGGAACAG	ACGCTCGAGT	GATTTTTGCG	300
	TCAGCGAACC	GTTTTCATCG	CGTGACAAAA	TTCTATCGCC	AAAGAGCTTC	CCATCCGGGT	360
	CAATTAATCTT	GGCAATCTCT	AGCGCATAGG	CTCGAGTAGC	CATGGTGTAT	ATATGCAGCT	420
	CGAAATGCGG	CGCGATCTTC	GCAAAGAATT	CCTTCAGGCC	TGGCCGTAAT	TTACGTTAG	480
55	TACCAACACT	TGCGCCGTTG	GTTGGCTTTT	GGCCCCCATA	TAGAACGGCG	GCAGCACAGC	540

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	TCCTCCATCC	GANAGANAAA	AACTGCNCAT	CCTTAGCGCC	CCGTATTGGG	GTTTGTTTNG	600
	GTTCCTTTG	ACCACTCCCC	CATGGTGGGT	TCACACCGC	NATNGATTN	CCGTCTGGTT	660
	CAATTTTACC	CCCAGCATNG	CTTGCGCNCN	TCCNNNCAAC	TTTGACTION	CCNCTGACCA	720
	AAATCCAAC	TGCNTTGGAC	CCGATTGT	TTTTTNTTG	AAACGNNANT	TCCTNGTCNN	780
5	CTTGGGNCCC	CNCTTTCCCN	A				

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1319UP

	GATCATCGGC	ATGCTGGAGA	ACCCAATTTT	CCAGTCTCAG	ATGAACGAAA	TGCTCAACAA	60
5	CCCGCAGATG	ATCGACTTCT	TGATACAGCA	GCACCCGCAC	CTGCAGGCAA	TGGGCCCGGC	120
	GGCGCGCGAA	ATGCTCCAGA	GCCCCTTTTT	CCGCCAGATG	CTCACCACC	CCGACATCAT	180
	TCGCCAGATG	TCTCGCCTGC	AGATGGGCAT	GGGCGGTGCG	GGCGCCGAGC	AGGGCACCGA	240
	CTTTCCAGCC	CCCGGCTCCG	CCGCCACACC	CGACGCCGCC	GCCCCTGCGC	CGAACCCGTT	300
	GGCTGCCATC	CTAGGCTTGC	AGCCCCGGCG	TGCTAACCCG	CTGGGCGCTG	CGCCCGCAGA	360
	CCGCGGCCCT	GCAATGCCCC	CTCTAGACCC	GGCTATGCTC	TCTTCCCTCT	TGGGCGCTGG	420
10	GCGCTGCCAG	CCCTGCGCCC	GCCGAATAAC	AGGGCTNCCC	AAGNANGNGN	TANCAACAA	480
	ANATTGCCCC	ANGCTNAATN	AATTNGGGCN	TCTCCAACCT	GAANAAANAT	TTCCGGGCTT	540
	NAAGCGCNCG	AAGATGTTCT	NTCNGGGCG	CCCTTNTATT	CTTTNTNTAA	GGNAAANTTN	600
	TAGGTGNGA	NTTNTCTGCT	NCNNGGGCG	NCGTGCGCGT	TTTTNTTTAT	TCCCNNTTNT	660
	TTGINTCTCT	CTNTCTGNTT	TGCNACCCCA	CNCAATTTTT	TTTNGGTGGG	GGCTNCCNTN	720
15	TTTTCATNNN	TTNCNANNAC	GNCGNTAATT	ATANTTGTNT	ATCACGTCCT	NTTTNTTTTT	780
	NNCCNACNGN	TTGGGTGACC	CCTTTNANNT	GAGGNTGGTG	TAGGGAAGA	AAAT	

1320RP

	GATCTTTTCA	AGAAGTTTAA	CAATGACTTT	AAAGCTAGCA	TTGATAAAGT	ACTCAAGAAA	60
20	CCTAACAGAG	CGGAGATGTA	TGATGCTCTT	TTGTCAATTA	ACGTCCATTC	TAACAATATC	120
	ACCTCGGGAT	TGAATAGAGC	TATCTCCACT	GGTAATTGGT	CGTTAAAGAG	ATTTAAGATG	180
	GAACGTGCTG	GTGTTACCCA	TGTCTTGAGT	AGGCTTTCTT	ATATTTCTGC	TCTGGGTATG	240
	ATGACAAGAA	TTTCTTCGCA	GTTTCGAAAA	TCTAGAAAGG	TTTCTGGTCC	TAGAGCTTTG	300
	CAACCCTCGC	AGTTCCGTAT	GTTGTGTACA	TCCGATACGC	CGGAAGGTGA	GGCCTGTGGT	360
	TGGTTAAGAA	CTTAGCATTG	ATGACACATA	TTACCACGGA	TGATGAAGAG	GAGCCCAATA	420
25	AGAATCTTTG	CTACTTACTG	GGCGTTGGAG	AACATTACAT	TGGCTAAANA	ANGGCNCCCT	480
	TCCTTTTAAA	TNNNGGGGGT	TTTATTTGGA	AAGGGTACTA	CCCCCGGTNC	ACAAAATCCC	540
	CCCCGNGTTT	TTGTTCCCCC	TTTTAAACTN	TANAAAAAAC	GNGTAAATTT	CCNNATTTCT	600
	TTTCCCNNTN	TCCCAANNNC	CTCAAAACTT	NTTCTTTTGC	AAGGAGGGGG	GAAATTTNTN	660
	ACCCCTTTNT	TTTNTNGGAA	GAGAATTTTT	GTCCCGGNGG	CCCCCAAAAA	TTTTTAAAGG	720
30	GAANTCNTTA	NATTCCCNAN	NGGGGNTNNT	AATTTTTTGGN	TTTTTANAAA	AAANCCCCCC	780
	CCNCCGNNA	A					

1320UP

35	GATCATGAGG	GAATCCTTGG	AAGAGGATGA	CAAGAAGTCC	GACGATGAAG	GTGACCTGTC	60
	TATTCCAGAT	GCGCCTTCCT	CTGAGGAGGA	TTAGGCATAT	AATGGGTGCT	TTATATGTAC	120
	ATTAATTAAC	ATTCCGCTTT	AGCTTTTTTA	CTCTTATCTC	TACGGTAGCT	CACCCATATC	180
	TGTAGCCCTG	CTCAGTTATC	ACTAAAACGA	GTGCCAGGCC	CTAGTACTAT	ATAATCCCAG	240
	GTTTCGAGCT	AGAAAACAATG	TCTGATTCGG	CTGGTTTGCA	TGGGAGTACC	GCGATGCAAG	300
	ATCCAGATAG	CACTTTAGTC	GAGGAAAGGT	TGGCGGCTAC	GCCAAAAGTT	ATCAACAAGG	360
40	TCAGAAAGAA	AGGTTCAAGC	CCCCTTTCAG	TGTTTAAAGT	TAAAGAGGGG	AGCCTATCCT	420
	GCCNAAANTG	CGCCAGGGTN	CNTGAATTTN	GGAGAAAAAA	NTGCGTTTTT	TCCGGAAGAG	480
	CGCCCCNTGA	NNCCAAAATT	TATTNGGGAC	CCNCNACACC	NCGAGAAATT	TNNTTNAAGN	540
	GCGCCCTTTA	AAATNCCCAA	TNTCTTCNAA	ANNATTTGAG	GNGGAAAGAC	ANTTTNTTTN	600
	AATTNCGCGG	GGGGTNTTTT	TTGCCGCCCC	GGNGNTCNTC	CCNCCTCCAC	NANTTTNAAA	660
	NATAGGAGGA	ANGGNGGNG	GCCANATTTT	CACCTTTCNN	AGTTNGANNNG	CCNGNAAANA	720
45	GMNTGGATGN	CCACCAATNC	GGGTGNTNGA	AAANANTNCN	NACTGCTTGT	ACACAAATTT	780
	TTTTGTGCCG	CNGGTGACAG	AAAAAAAGAN	GGATTTTTTN	ACAACCNNAA	AAANAAAAAA	840
	AAAA						

1321RP

50	GATCACGTCG	TTCTTGGA	TTCTATCGTC	GACGGTGCTG	TTCTTCAGCC	GGGAGGCGAT	60
	ACGGCTGGCG	ACGCTGCGCA	TCAAGACGGG	CGGGGACGGC	GGGCGCGGGC	GCGAGATGTC	120
	TGCGGAGCTG	CAGACGGCGG	TGAATTTTGC	AAACATACCG	ATGTGCATCG	GGGCGCCGCT	180
	GGCGGTGGTG	CTGGCGGTGT	GCCAGTACTC	GAACCTCAAC	AGCTACTTCA	CGCAGCTGCC	240
55	GTTCTTCTCG	TGGTGCATCT	ACCTTGTGCT	GCTGTGATC	CTGGCGGAGC	TCGCGAGCGA	300
	GCCGCTGTAC	GTGGTGAAAC	AGTTCATGCT	GAACCTACCG	AAGCGGTGCG	AGTTCGAGGG	360

	TGCGGCGGTA	GCAGCGTCCT	GCCTGGTGAA	CTTCGCGGTG	ATCTACTGGT	ACGAGAACTG	420
	GTTGAATGGG	CGCGGCAGAC	GTGCACGACA	GCTACAGCCA	GGAGGCATCG	CGGTGCTTGC	480
	TTTTNCCCCG	GGGAAGGTTG	CCCCCNCCAA	AACTTTNCCT	GGCCCGNTCT	ACTTGAANAA	540
5	CTTGCNCTC	TGGGCCCCCA	AAAACTTTTT	TCCCTTTNTT	TNACAAGTTC	CTTTTCCGGN	600
	NATTTTTTAC	GGGNTTNTTC	CNCCCGNAAT	TINTTGCCCC	TTCCNAAGGT	TTTTTCCCCC	660
	TNTTNTTTTA	NCCCNCTTIN	NCAAGGGGGA	AANNTTTTIN	CTTCCCCCNC	CCCCGGAGAA	720
	ANNGGGGANT	TTCTTTTTTT	TTAAAANGGN	NCCCCCCGN	ANGNNTTTIN	CCCCCNAGAA	780
	NATTTTTT						

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1321UP

	GATCGAATTC	GATTTCCCTTT	CGGTGCAAGG	AAACAGAGCC	TTCTGTTAAAG	TGGGATACGA	60
	AGACCGTGCC	CAATTTTCGT	CGGCCCTTTC	TACATACATC	TCAAGCGAGG	AACCTATCGG	120
5	CGTGCCATTA	GTGGTCCATA	TATTGCAAGA	ATGTACAAAG	TTAGAGAGGA	TGAAGGTTGG	180
	GGAGGACGAT	GAGCTATGGT	TCAAAAGGAG	TTTGGAGGAA	NAAGTANCGG	ATTCCAGTTG	240
	TAATTAGCTA	CAAAAGCGGA	ACGGGTCCACA	CTAAAATTCC	ATGCGCTAAC	TTTTCCACTG	300
	AAAGAAGCCA	CATGAAGCTT	TTATATCTTC	TGGGGCTCCT	CTGGGACGCT	TACACGTCCA	360
	GAACGTGTTT	CCAAAATTCC	TCGACGTTTT	CGAGGTTTTA	AGAACCGATC	GGTCTCCGTG	420
	CTTGACAGAGA	GGTGCAATTTG	ATGGGGCGAA	AAATGGTTTT	TCAACCGCCG	AGGGTCGTTG	480
10	TTTCAGGAGCT	TTGTTAGTTC	GAAGTTGGAG	CGCCATTCCA	TTGATTGCCC	CTTGCTCTTC	540
	CTCCCTNGCA	CTTGCCGCTT	GCTGCTATGT	TTACTTACTA	NAAGCACCGA	NCCACACTTA	600
	TCTGGTTTTT	TTTTCCTATC	CTGANACTCC	CTTGAATTAT	TGCTCTCTTT	TGACTTTCCC	660
	CCTGTTCAC	GTTNGTTACA	CNTTGTCTTT	GAATATCTTT	CCTTTCCGAA	GCACCCATNT	720
	TTATAATTAG	TCCTATTGAC	CCCCCCCACC	TGGTTTTTGT	TTTCCTCCCA	ACANGTTCTC	780
15	TTCTCCACTN	AGNTTTGTAT	ACNGAATGTC	NACCC			

1322RP

	GATCCAGGAA	ATAGTACAAC	GCCCTTGGAT	AATGCCAGGG	ATTCTGACT	CCTAACGAAA	60
20	AGCCTCTCCT	CTTCTAATTT	CTTATTAAAG	TAGTTAGCTG	CAAACTGTAA	CAAAATCCCC	120
	GGCCGTCCTT	GCTCCACTTC	TTTCTGGAAT	CGCTCCAGTA	GGTCACGGTG	TTCTGTGAT	180
	AAAACCATCG	AGTAGTTTGT	TGTGTGATGC	AGAAAACCTG	CCTATAGCGG	AACCAAAATG	240
	CTCTAGTAGT	GTGACGGCAC	CGTTTTATCC	AGTTTGCTAA	GCAGCTGCC	TAGGTTAGGG	300
	AGAGTAGAAA	GTGTCAATGG	ACCCGAATTT	CCTTCTGCGC	GCGGCGAACG	ACGTTAAATG	360
	TGATTACAGT	GATCACGCTA	CTGGGGCTAA	CTACCAATTG	AGACAGGCTA	GTTGTGGAAG	420
25	CCTGAGGAGG	CTCCGAAAA	GCTTGATGTG	AGGATACTCG	TGTTCAAGTA	TCTTGATATG	480
	CTGTATTGAT	CTGTCCGTGA	GACCTCGAGC	TCTTCGTCCG	TCAATGCCCC	GCGCCTAGAG	540
	AGCTAGGTTG	ACTCCGAGTT	CTACAAAATT	TCNAAACNCC	TTGAAAATTC	NCAACATGTT	600
	TNTGGACCAT	CNANTTCCCC	NCCTTCGGAA	MNAAGCCCTC	CANCTTTTTT	TNACGTTGCT	660
	NACTTNCCCN	CTGAAAAAAC	GTTCNATTTA	CCCTNTNTA	CNCGGCAGGA	AACCCCCAN	720
30	TTCTTTTTTCC	ATNAACCGGT	ANCTNAAAGA	ATTTTCNNGC	CATGNGGTTT	ANG	

1322UP

	GATCTTCACA	ATCGACGCCA	CGTCCATCGC	GATGTTCCGC	CGCACTGCCG	TCACTGTGAG	60
35	ATATTTCGTAC	GGAGAGAGCC	GGTACGTGTT	GATCATGAAG	TTGCGCACAT	CCTTGTAACG	120
	TTTGGCCGTC	TTGAACCGCA	CCGAGTCGTT	GAAAAAGTCG	GGCAACGCGC	GACGCTCCAG	180
	CTCATGGATC	TCGTTGAACT	GGAACCACGA	GGCAACGACG	GGCAGCATCA	CCGGGTGCGC	240
	CTGCTTCGCT	AAGAAAGCGG	CCGCCCTGTC	CTCCAATTTT	TGCGCCTCCT	GCTCGTAATC	300
	GATCTTGGGT	TGTTCTCTGT	GCTGCTGCTG	CTGTTGCAGA	TGTGGCAGCA	CAGGTACAGA	360
	TGGATTACAG	CTGCCCGTGT	TGCCCGACGA	AAGCGTTCCA	TGCGCCAGCGT	TGTCAATATT	420
40	GCCATCCTGG	ACATCCATTG	GCTCGCTCAT	CGTTATAAAG	AGTATGCCAC	GCTACTTTCC	480
	CCGTTTAATA	GCTTTCAAAC	GCGTCTTCGC	TCTGCTACCC	CGCTTAANTC	CACACTGGTT	540
	TNTGTTTTTCC	NCCATACCCA	AAATTTTAAA	ACCCATTTTT	CCACATCAGC	CCCATATCCT	600
	CCGTTTGGTN	GNGGAAATTT	GAAACCCANC	CCTCGCCTGG	CGGAAAAANC	TNCTTATGGA	660
	CCCCCTTCCC	NTCTTTCAAT	CGGTCCCCCT	NACCAAGNNT	TTAGCCCCCC	GGNANANGAC	720
	CAATTNGGTC	CTTCCGTCNC	TTTCCCTTNT	TAAATTGAAA	AAGGTTNCCC	TTTGAAAATT	780
45	AACCCNGCCC	NCNTCCCCCC	GANAAATGGT	TTTTTGT			

1323RP

	GATCAGTTTG	CAGGGACCAT	GAGCAGGGCG	GGCGACGAAA	GCAGCTCTCC	TTCTGTACACC	60
50	TCCGTGCAGG	GGCTCAACAC	GCCCTCGCAG	GCGGACGACG	ACGAGGAAGA	GGAAGATGCG	120
	GCACCGTTTT	ACATCCATCC	AGATTGAGG	ACATCACAGC	TCTACTTTGA	GAAGATGATC	180
	GATGAAGAGC	CCCTCCCGGC	GCCTGTTAAG	CGGGTGTTC	ACATTAAATC	GTATGGAGAG	240
	GAAATTTTTCC	CTCTCGGTCT	ATCCACCGAG	TGAAGCGATG	CGATATGCTT	CGATATGCTT	300
	GTGTATTCCA	TCGGGTCTCT	AATTACCACC	TATTGCCATG	GTGATCCTCC	GGTACTTGCG	360
	AGGTGGTCGT	CCAAGGGAAG	ATGAAAAAAT	GCTACTGGTC	NCCNCAATCA	ATTNNCAACC	420
55	TCCGATTAGG	GGGGGGGGNT	TNTTTTTTTA	ATTTTAACCC	CCCTTTGGGG	TGACCCGNNC	480

	NAAAAAAAAAG	GGGGCTTTGN	NNNTTTTTTT	TNGNCCCCGC	CNCCNTNTCG	GNAGNTTTTT	540
	TTTTCTGGNG	GGGGGGCCCC	CCNNNCGGAA	AATNTTNTNC	AAAAGGAAGN	ATTNCCCCN	600
	NANGGGGANT	TTTTTTNTTA	NNAAATNNAA	AAAAAATTNN	TTCCATTCCC	NNAATTNNN	660
5	NTTTTTNNNN	CTNTTNCGGN	TTTGNAANTT	NACCCCCCNC	NANAANTTTN	NTTTTTTCCC	720
	CCCCCCCCC	CCCGGGNNNN	TNCNTTTTTT	TTNNNGATN			

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1323UP

	GATCCGTTTT	TCCAATATTT	CACCGTCCTG	TAAATCAACA	GTTGAAAAAC	AATGGCGTGC	60
	TTAATCGACG	AACGCAGCAC	AACCAGCAAT	AGGCTTCGAA	GCCGTTCCAG	AGGTGATATC	120
5	GCAAAGTTGC	TCGAGCACTA	GAACGGACTG	GGTCATTATA	TAGGTGGTAG	TAAGAAGTGG	180
	GTAGAAGGAA	GGGGACTATG	GTACAGCGCG	GGCGTGGAGG	CAGGGACGCC	GCAGTGGGTG	240
	CCGCTCATGG	GCATGGGCAT	ATGCGGCAGT	TGTACGAGTT	GGTTTACAAC	CGGGGGGCGG	300
	TGGGGACGTA	GACGTTTACT	GCCGGACCTG	CCGCGGCACG	GGACGCTTGA	CCCGAGCAAT	360
	GTTGTGTGCA	CGCTAGTGGA	GCTGTACCAC	TCGATTCCCG	GCGACATCCC	GCTGATTAAG	420
	ACGCATTTCNA	TCGCCCGGTGG	GTGTTNTCTGA	NCNAAGTTGG	ACCCNGGAAC	CTGATTGTTT	480
10	TGTGGCNAGA	ACACATNCCC	TTGTTGGTGG	ACCCACCCGA	NAATTAAACC	GCCCCNCCAA	540
	GACNAGCCGC	CCTCCCCCCN	GNGCGTTTGG	GTTNNNGCCA	TNNGTCCGGA	CNTCCAAGAA	600
	NTTTACTNGC	ACCGNCGGNG	GCACCGCCGN	CGGGGCACTT	NTTCAACNC	CNTTCCCCCC	660
	CNTGGGGGGG	NCCCCCCTT	TGAAAAANNG	TGGGGGGGAC	CGGTTCCGGT	CCCNNTCCCC	720
	CCATTTCNATT	TTTNTTTANA	NANNACCAAC	CCGCTTCCTT	TNNCCCCACN	CAAAANNNGT	780
15	TNGTTAANCT	NCCCCNTTAT	TCTNCCCCCC	CGNCCNCTAT	TCCNACCCGN	CNGT	

1324RP

	GATCCTACCG	GGATGCACGA	CGCATACAAG	TATATCAGGG	ACCTTGCCGA	GGAAATGGGA	60
	CATAAAATTG	AAGGACCAGA	TCACAATTGG	TCGTTCCTTA	TCATAGCCAA	GATATATATA	120
20	TATATCTGGG	ATAATTACAG	CGCTTGGTAT	GTATACCTCC	TACATACAAA	TACTTACATA	180
	CACATAAATA	TAATACAGCT	ACTTGTAAGG	CGAGAAAGGT	TACTTCTGGA	GAGCCATTAG	240
	AGACGCAACG	AATGTCAAAA	TCAACCTCGG	GCGGACTTCA	TGATATCTT	CAGGAACCAA	300
	CCAGATTAA	GCACCAAGTT	TTCTCGCGAT	AGAAATTGCC	AATTTAGCGT	TTGCATACTT	360
	CTCTTCTCT	GTTACGGCCG	GGAGTAACCA	AGTCATAATC	CACATATCCT	GGAGCTAATC	420
25	CGTTCAATAC	ATCCAATAGG	AAATGGGCAT	TGCTCAACGA	AGCATCCCTG	GAAAGACATA	480
	TCCTGCTCGA	TTTGCCACCC	TTGGCACTTG	CTTGCGCCCG	ACTTTAGATC	TGACATCTGA	540
	ATNCTCTACC	AAACAAACTN	TGAGGANATN	TGTTTGACAA	GTTTTCTGCN	CCTCACTGCC	600
	AAACTAAACT	AAGGTACAC	CTNTTTGCNT	CCCCAATTCG	AACCCCTTNN	GCCCCCCCAA	660
	AAAAACTTNA	ATTCCCAAAT	TCANNCCCTN	TTTGGTTTCC	CCCCCAATNA	NCNTNAAATTT	720
30	CNNCCNTNN	CTGGNCCCGG	NNGAAACCCN	TGAAATAACC	CCCCGAATAC	CTNCTTTGCC	780
	CGAAC						

1324UP

	GATCTTAAAG	AGGCTCAGTA	TGCAGAGGCA	GTTTCCAGAA	GAAGACAGGC	TGGGCTTCCA	60
35	AATCCCTCAG	CTCCCGCCGT	GGAAGAGTCC	GCAGATGAAG	CAACACACAC	AACAGGGCCA	120
	GCAAACGCCG	CTCGGGCGGC	CGCGCTGCAT	CCTCGGTGCC	CCTTATGAAC	CGAGCAGGGC	180
	GTCGTCCACT	GGTGCAGGCC	AAAAGCGCGA	CTACGACTAC	TCCGTGTTCA	ATGAGAGCAG	240
	GCTCCTCACT	GAGAGCAAGA	TAGACCAGTA	CTTGAAGAGC	GAGGCCGCAA	CGCACAAACG	300
	CGTATTCCAC	CGCGACCGTC	CCCACGACGA	CAGCTACCGC	CCCGACTTGC	AGCCGCTCTG	360
	CTGCGACAGC	TCGGACGAAG	GAAGGGAGAG	CCCCGGCGCG	CGCAGAGCGC	GCCGTTGAGA	420
40	ACGCCCCGTT	TGGTGGGTCTN	AGCATCCCCC	GGANATNCTN	CCCAGAAAAA	ANTNTTTCGA	480
	ACACGCCGCC	CGCCCGCCCC	CCNCAGAAC	TCCCNTTAGC	GAACNTTNNA	AGAAGAAATNT	540
	TNCCANTTTG	CGNCCCTNCT	TGGANAATGG	TGGGCCNGCT	TNACNAAAACG	CTAGGTTGNC	600
	GCGCCGAAAA	NCACTTTGCT	TNACCGCATN	CTCCCCNGAA	AGANAGANAG	NTCCCNAC	660
	TTTTNCGCAA	TTTTNTCCCC	CGCGANAAAG	GTTCCCGTTN	ANCCGANGGG	NGGCGCANNA	720
	ANAAACCTAC	NCANTTTNAA	CATTCCCCC	CNTTTTTTNC	AAAAAAGANA	ATGNNTTTTT	780
45	CACCNTGACA	ANTGATNNCT	TTTNTGAAGG	GNGGNAGTAC	CCCCCGCTTG	CCTNTCCTCC	840
	CCTTAGANCT	NCNATTTTGT	TTTTNT				

1325RP

	GATCAATGCG	GGAGTGGCAA	AAAGCGACTC	AAGGTGAACG	TGTTTCAGCA	CTGTTTCATGA	60
50	TGGGGGGGTGG	TCATTTTGCC	GCAGCCATCG	TATCTCACCA	ACGCATAGAT	ATCAGTGGCA	120
	ATGCCAAGAG	GCATGGAGAA	TCGTTACAGG	AACAGGCCGT	GCACCTTCTT	GAGCACAAAA	180
	CGTTTCACAG	ATACACCACG	AGGCGGAAAC	AAGGAGGTTT	ACAATCGGTT	ATGGATAACG	240
	CCAAGGGGAA	AGCAAAATTC	GCAGGCTCTA	CGCTACGTAG	ATACAAATGAG	GCGGCATTAC	300
55	GGAATGACGT	TCAGGACCTG	TTAAAGAAAT	GGAGGCCATA	CTTGAACGCG	TGCGAACACA	360

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	TATTTATTAG	GGCCAAAAAT	GTTGCGGACA	GGAGCGTATT	CTTTACGGAA	AATACCCCAT	420
	TGACCAAGGT	TAGACCCGAG	GATTTCGGACA	TTCCCATTTCA	CAACCCGTAG	ACCTACCACA	480
	AATGAGCTAA	GGCGAGCATG	GTGCGAGATA	ACATACTTGA	AGAAGACATT	GAAGCCCAGC	540
	CATCACATCG	GAGCGGCATA	CTCCTAAAGC	GACAAATGATC	CACTGCCAAT	AAGCGACGTT	600
5	GTACGCAACT	TAACCCCGNG	GNAAACCTTA	NCAGGAACGG	CTTCTTTCTT	TGGATTCTNAG	660
	GCCCCNNNNT	ATTCCCTNNT	CNAAAANCNT	NTTTCCCCAA	CCTCTTTTFA	AACCCCGGA	720
	AAAAANNNTTN	AAACCCNCNC	CCCCCCCCA				

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1325UP

	GATCGTGCCA	TGTCTGATGT	GGTATTTTCGA	TGCGGGGGCCG	GGTGGGAGTG	CCAGCTGGAC	60
	TACGAAATCA	AGGACGAAACG	TGAATTTTCA	GCCGCCCTAG	ATACTGTCAA	GGGTGCGCTA	120
5	GCCCCGAAA	AGAAGTCGCC	CTGCCGCACG	ACCGTGCAGC	CTGGGCCTGG	AGCAGGCGGG	180
	AACAACACGC	CGACACGCGT	ACCTCTGTCC	AAGCTCTTTG	TAGGTGCGAA	AAACACCAAG	240
	TTCAAGCCAG	TGATGCGCTC	TGCCGATGCC	GCTATCGCGG	CAGGCAGTGC	CGCTTCGGGC	300
	CGCCACTGTG	CGCTATTTCGA	TAAGACACAG	ATAGATGACC	CACCTGGTCAT	GAACAAAGCC	360
	GGTGACGACG	AAGTCGAAGT	TGTAGTCGAT	CCTATTTTGT	CAAAAAAGCT	ACGCCAGCAT	420
	CAGAGAACAG	GTGTTGAATT	CATGTATGAC	TGCGTCCGGG	GGCTCGCAAG	GTCCGAGAAG	480
10	GACGATGATA	GAACAGTGAT	GATCTTGGA	TATGATAGTG	ATGTCAAGGG	TTGTCTGTTG	540
	GCGGACGAGA	TGGGATTAGG	GAAAAACATGC	ATGACGATTG	CTCTGATCTG	GACGCTACTG	600
	AAGCAGCATC	CCCAGGCCAT	CGTCTGTTCC	dATGCTCCGC	AATTGGGGGG	TTTGGTTTGC	660
	AGGGTTTPTT	GCCANAAATT	CTCNTGGTAT	GCCCCGGTGA	CTCTGATTGG	CGACTGGGAA	720
	AANGATTTCN	CCNATNGGNN	GCCGANGAAT	AAATTGGANC	CTNGAANCCN	ATTGCNAANT	780
	ACCCCCAAA	ANAAAAAATG	N				

1326RP

	GATCGAATTA	AGTCAGATTT	GATTGCGATG	GCTACTAACG	AACGTGCATT	GTCAGACGGA	60
	CCGAATCAGG	TACACATTGA	AACTCGTGAG	TGGCTAGTGC	AGACAATCAT	AAATGAAAGT	120
20	TGTGGCTGGA	GCAAGGGAAC	TGCGATGCCT	TAACCTTCTC	AAAACACTCA	TGGGTGGTCA	180
	AAAAACAATC	TATTCAGTAT	ATAGTATATC	AAAACATTAA	ACCAAACCTAG	GCGCCAGAA	240
	TATTGCCAAA	ACATTGCACT	GGAGTATTAG	TATGCAGAGA	AGTAGCAATG	GGCGGCTAGC	300
	TGGTTACGTG	GCAATTCACGG	ATGACTTATA	GAAGCCCAT	AATCATCTTT	TAGTGACAGT	360
	AAGATCAGAC	ATTAAATAAC	GTATCGAATT	TTAGGGGAGA	AGTCATCACA	CTTGCAATTAG	420
	TATACCGCAA	TAATTCGCGG	ACCACATCAG	TTAATACTGG	GCATGGTTTC	TAAAAAGCGA	480
25	AAC TG GGTTC	ACATTCACTG	TGTTTTGCAA	CATAGATGTC	TCTCCTCATG	CTGCTTCTCG	540
	GTTGAATAAC	CATGCTTCAG	TAGGCACCGT	TCCAGTATT	TGGTAATTAG	TTGCCAGACT	600
	CCTTTATAAA	GGATGACCCG	AATATGANCT	TCCATTAACA	TTGCCNGGAA	AANANATTG	660
	GCANCCGTAN	ATATTTTCCT	GCCAATTGAN	ACCGTTCTNT	GAACCCCTNC	TTGGGGNCCN	720
	GCTTCCCAA	AACGAANTTC	CCCGGTNGNT	NTTTTATAGG	TNCNAAGAAA	AANA	

1326UP

	GATCAACAAG	CGGTTTCGCGC	AGCTGCGCGA	GAACCTGCGC	CTCAACGGGG	TGACGCCGAG	60
	CGGCAAGCCG	CGGCTGTTTG	TGTGCCACAC	GTGCACGCGC	GCGTTTGCGC	GGCAGGAGCA	120
35	CCTGATCCGC	CACAAAGCGT	CGCACACGAA	CGAGAAGCCG	TATATCTGCG	GGATCTGCGA	180
	CCGGCGGTTT	AGCCGGCGGG	ACCTGTGTCT	GCGGCACGCG	CACAAGCTGC	ACGGGGGGAG	240
	CTGCGGGGAC	GCGCTGCTGA	AGAAGGGCTC	GCCGCGCGGG	CAGCGGCTGA	GCCGGGCGGT	300
	GCGGCGGCGC	AAGAGCGCGG	AGGGGCTGCG	GCGGCGGGG	AAGCCACGGC	GGCGGCTGTC	360
	GTTCTCTGCG	CAGTCCGGGG	AGAGCTACGC	GTGCGTGCGG	CCGCGCAGCG	CGGGGGGGGG	420
	CGAAGAAGGT	GCAGTTCTCG	ACGCCGCGAGC	TGCTGCCGGT	GGACCTGACG	CAGGAGCCGT	480
	CGACGTTTAC	GGCGCTGGAG	GCGAACGGTG	GTTGCAGGAC	GTGAACAGCC	TGTCCGCGCT	540
40	GGACGGACGC	CGGAGGAGGG	GAGCTGCAGC	CCGCGTCGGC	GCTGTCTGTTG	CAGGCCACGC	600
	ACACGCCGTC	GCTGTTTGCC	CACCCTTCCC	NGTTGGCCGT	CCTTACGGGA	ACCTGCTTGN	660
	CGCTTTTGCC	CCGAATTGCA	GGTTCGAAGG	GCTTNNCCCC	CGNGGGCNCN	CCGCCCCCCC	720
	CGCATCCCCC	CCCGTNNCCC	AAAAATTCAA	GTTAACCCAA	NAACATTCCC	TTTCTGCTT	

1327RP

	GATCCAAGCG	TCTGGAGTAT	GCTAAACGAG	CGTCTCATGC	CAGGAACAAC	GTATTATCTC	60
	GTTGAACGCT	GTCCTCGAGC	CTCGAGCCAA	ATCTGACCGT	TTTTTTTGCTA	GAGCATACCC	120
	AAAAAGAAAC	ATCTTGATGC	GCTAAACAAC	ATGACAATGA	TTAGCGCGAG	GATGCCTTTC	180
50	ATGTTCTAAA	TTCATGCCTC	GAGGTCCAG	TCGGTGCCGC	ATGTAGTCCT	GCCGGCCGAT	240
	TATATTGCGG	CGTAGCTGTG	GTGAAACATC	GGCGCTAATT	GACGGATAAG	CAGCTGTGTA	300
	CCTTATTTTC	ACTATTTCCT	TTACATACC	AACGACTAAG	GTTGATTCCA	AGAGGTACTG	360
	ACTGACCCAG	TGGACAGCGT	AGTTATCGGA	GTAACCTGGG	AATGTGCTAC	GGGTCTCTCG	420
	GGAGCGGAGG	AATGGGCTGC	TCAAGGCCGA	CGACGCGCGA	GCTGACGAAG	GAGCTCAACA	480
55	TCCCCAAGGA	CGTGGCGAGC	GCCATGAGGA	AGTCGCTGTC	GTACGACTTC	CTTAATGTGC	540

CTGGCGGGGA	CGAGCAGGCG	AGCCCATCGG	GACGCCGACG	ACAGCGACAG	CTGAGGACGG	600
CGCCGACGGA	ACTGGAAAAC	CAAACCGGCG	AANGGGCCCN	AGGGCNGNGG	ANCAANGNCG	660
GAAAGGGGGA	ANTTTGCCGA	NTACCNCTGT	TGGCCCNCCC	CCGCGGTTCC	GANTTTGGGT	720
TGNCAAAATC	CCCTCCTCAC	TTNCAAACTT	NCTGAGTNNA	AGT		

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1327UP

10	GATCGGAGGC	GTCGCTGGAG	CGTGCTCTTG	TTCTGTCTCT	GCTTGGCTAC	GCCCGACTTG	60
	GCAGCCGCGG	CGCTCCTGAG	CGTCTCATAC	TTGCTGCCTG	CTACTTGCAAT	GGTTTCTATC	120
	GTACCGGTGC	AGCAACTGGG	ACAACAGCAC	CCAGCAACGG	TTGCATTAT	ATAGTGTCTA	180
	CCTGTACGAT	AGGGGACTGA	TCGCTCTGCG	ATGCGTATCT	ATCTCATTCG	GGAAGGTTCT	240
	CGAAACGAAA	AGCGCCAGTC	GCTGTCTGAGC	GACAATAGCT	AACCACAAATG	ACACAATAGT	300
	GCGCGTCCGG	GACCCGATCC	CTGCATGAAG	ACCGAATGCT	CGAGCAGATT	CTTGTGCGGG	360
	CGTCAGCGGG	TAGCGCGGCT	CGTCGTGTGG	CGGAGCCCGG	ATATGCGATG	GCACCGGATG	420
15	GCGATGTGCT	CGGCGCTCGG	GATTAATCTA	GCTCTTCGGA	GATATGCTTC	TGTAGGAGGA	480
	AGAGGGCGTA	GGGAGAAGGC	CTGGACGCGG	GCTTGGGGAG	CTCTGCAACG	TTGCGGGGGC	540
	GTGCCGCGGT	AGGCGGCGGC	ACACCGGGNA	AATNCNCNGN	GANCCITNGTN	CCCTCCNTTC	600
	CNCCCCCAA	ACTTGCGGGC	NTTNCNCNCC	CGAATNNCAA	GGNNGNCCCC	NAAATCCTNA	660
	ACCCCCGNA	GGAAAGNNTT	GGCCTNTTGA	NCAAANNACN	CGCGTTNAAA	NTCCCGGGGG	720
	TTTGNGGCC	CCGAAAANGG	GGATAAACCN	GGCNACNACC	TTTTGAAATC	GCGTTTCNTT	780
20	TTNCCCCCAN	ACNT					

20

1328RP

25	GATCTCTTCT	GCAAGTTTCT	TTATCGGAAG	CCCAGGCTCT	GGATTTCCTT	TCTCAACACC	60
	AATGGTATTG	TCTTCGATAT	CAGAGAAGGA	GCGCTTCGAA	TTTTGCGCAC	CACCATATGG	120
	ACTCTCTTCA	TTATTTTCGT	TATTTCTCTC	ATCACTTTTCG	CTTGCCAAAG	AAGAATCCAT	180
	CGCACCCATT	ACATCGAATT	CTTCATTATC	AGCTTCTCCA	CCTGTTGTAG	TATTTCTGTC	240
	ACCATTATTA	TCCTGTTGCT	TATTGATTGC	ATCACGGCCC	ACACGGCTCA	TTTGTATCAT	300
	GCTAGATGTA	TATGGGACAT	AATCCACCTT	TTCCAACAGA	GGACCGAATC	GCTCAACCAA	360
	GTATTGATTT	AAAACCAGGA	AGTTCTTTGT	ACTGACCTCG	GCATATTCCCT	GATCTTGCCC	420
30	GAAACGTGCC	GAAATTACCT	TAAATAAGTC	GAGCACGCAT	GAGTTGGCCA	TGTTATCAAA	480
	GTAAAGATTT	TCTTGTAGCA	GCTGACAAAT	TGGATCAAAA	AGATCTTAGA	TATGAGATAG	540
	TTGTGATAAA	ATTTCATCAT	TACAGCCACG	ATACCCTTGA	TACCCGAACT	GCAGCCAGCC	600
	TTAACTGTAT	AATATGGATG	GTTCCATTAG	TTTCCAATAG	TCAATAGATG	CCATTTTCCA	660
	ATATNAACCC	CCCTTGACAG	CATAATATCA	GTTCCNTGTT	NTNATAATCC	CCCCATTTTA	720
	CCAAACCNGC	NCNGTTGATT	NCCCNCCCTC	CACCCCT			

35

1328UP

40	GATCGGAGGT	ACATAAGTGC	TCTACCGACC	AACCCCGCTC	TCCATGCATC	AACCAATGGA	60
	GTTGAAACAG	TTGACTGGCG	AGCAGGCCGC	CGCACTAGAT	GCGGAACCTCA	TGGGCCCAGA	120
	CGTTGGCTAC	TCGCTGCATC	AATTGATGGA	GCTAGCAGGT	CTTGCCGTGG	CGCAAGTCGT	180
	CGTGCGCCAT	TGGGGCGCCG	CACAGGCGAA	GAAAAAGGTG	CTTGTGCTAT	GTGGGCCTGG	240
	CAATAACGGC	GGCGATGGCT	TGGTTGCTGC	ACGGCACTTG	CGGCTCTTCG	GCTATGACCC	300
	TGTGGTCTAC	TTGCCGCGGC	TGTGGGCCAA	ACAGCCCTTC	TACGCACAGC	TTGCCAAGCA	360
	GCTACACTTC	GTCGGTGTCC	CAGTGCTCTC	CGAGGGCGAT	GACTGGCGTG	CGCATCTTGA	420
	GCCACGTGAC	ACGCTCTGCG	TTGTGGATGC	GCTCTTTGGC	TTTTCTTTTC	GTCGCGCGCT	480
45	GCGCGAGCCC	TTCGCTAGCA	TTGTGCGAGA	GCTCAAACGC	CATGAGGATG	ACATCCCAAT	540
	TGTCGCTGTC	GACATTCCCA	GTGGTTGGGA	CGTTTTCACG	AGGACGCTCA	CCCTTTCAGA	600
	CTTATGCACG	TGTGCTGATN	TCTCNTGAAC	GCCCCCAA	AGCTGCTCCC	NCNCACATTG	660
	AAACTGGTTT	TTTACCNCCC	ATTANTTTTCG	GNGNNGTTTC	ATCCCNAAAC	CCCNCGCCGN	720
	CCTCCNTGTT	TTTANTCCNT	CCCCGTATCC	TGNNCCCATC	CANANTGCGT	TTTTGANTTG	780
	CCATTGCNTN	ATCT					

50

55

1330RP

	GATCTTGGAT	TTGACATTGT	CAATGGTGTG	AGAGGACTCG	ACCTCAAGCG	TAATAGTTT	60
	CCCTGTCAAA	GTCTTCACAA	AAATCTGCAT	ACCTCCCTC	AAGCGCAACA	CCAAGTGCAA	120
5	CGTAGACTCC	TTCTGGATAT	TATAGTCGGA	CAACGTGCGG	CCATCCTCTA	GTTGCTTACC	180
	CGCAAAGATC	AAGCGCTGCT	GGTCTGGGGG	AATGCCCTCC	TTGTCTTGGA	TCTTCGATTT	240
	GACGTGTGCA	ATGGTGTGAG	AGGACTCGAC	CTCAAGCGTA	ATAGTTTTCC	CTGTCAAAGT	300
	CTTCACAAAA	ATCTGCATAC	CTCCCTCCTC	GCGCAACACC	AAGTGCAACG	TAGACTCCTT	360
	CTGGATATTA	TAGTCGGACA	ACGTGCGGCC	ATCCTCTAGT	TGCTTACCTG	CAAAAAATCAA	420
	GCGCTGCTGG	TCTGGGGGAA	TGCCCTCCTT	GTCCTGGATC	TTGGACTTGA	CGTTGTGCGAT	480
10	GGTGTGAGAG	GACTCGACTT	CGAGTGTGAT	TGTCTTTCCC	GTCAAGGTCT	TGACGAAAAT	540
	CTGCATACCA	CCTCTCAAAC	GCAACACCAA	GTGTAAAGTA	GACTCCTTCT	GGATATTATA	600
	GTCGGACACG	TTGCGGCCAT	CCTCANNNTG	CTTACCCTGC	AAAAATCAAA	CGCTGCTNGT	660
	CCTGGGGGAA	TGCCCTCCNT	GTCCCTGATT	CTTCNANTTT	GACATTGTCN	ATGGGTNCCN	720
	AAGANTCCNC	TCAATTNTTG	ANTTCTCTCC	CCGNCAGGTN	TTGAANN		

1330UP

	GATCAGATGT	TTTGTGCTAG	TACGTCGCGA	TAGTACTAAA	ATTACCATAT	GCCCATCAGC	60
	ATTATACTAA	CTAGTGTTGT	TTTGCACTAA	GCGGTAAACC	ACCCATTACG	CCTGTTGTAT	120
20	CACCAGAATC	CAAATGCGTT	TTTGAAAAGA	GGTTAATTGA	GCAGTATATC	GATGAGCATG	180
	GGGTAGACCC	AATCTCCAAG	ACAAGCTTGA	CTAAGGATGC	GCTAATTGTC	ATTGCCCAGA	240
	CACCCACGCA	GTACGCGCTC	GCAACGCGAG	TTAACTCGGC	TACGCTCAAC	GCCAATTACA	300
	GCATCCCCAA	CCTTCTGTCA	ACACTACAAA	ACGAATGGGA	TGCCGTGATG	CTGGAGACAT	360
	TTGAGCTGCG	GAGTCAGCTG	GATATGTGCA	AAAAGGAGCT	ATCGTCAGCG	CTGTACAAGT	420
	GCGACGCGGC	TATCCGCGTC	GCGGCACCGG	CGAAACAGGA	GAATGATGAA	CTCAGACACA	480
25	CGTTGACGGA	GCCTGACGGA	GGCAGTCGGC	GGCAGGCTG	CCGATGCCCC	GCCCCCTCCA	540
	GCGGAATTGA	TTACCGCGAT	GGCAGAAACG	CACAAGAATA	TGTGCAGCAA	ACGAAAGAAA	600
	GAAGGAAATG	AAAGCCAGGT	AGTGACGGCA	TTTGCTCCTG	GAACAGCCGG	TCCAAACGGG	660
	NTGCGAGGTC	AACCGGTTTT	TTGGTTACCC	GTTTNNNTGG	TTCCGGAAAA	ANAATTANCT	720
	NNCTTTTAA	CCCCAAGGCA	GGGCCNTNTT	GCTGAACAAA	AAGGGTTTTT	GCTNCTNNAA	780
	AATTNGCCNC	TNAC					

1331RP

	GGATCATTTCT	CAGGTATTAG	AGATTGCTGA	TGGGCACGCG	CTTTTTCTTC	AAGGAATTCTG	60
	ATCGGAGGCG	CCTCTAGAGT	TGAAACGAGT	TTATTATACT	CAGCCATTGC	TACAAGCATA	120
35	TAATCAATAG	CCGCAGCGCA	ACTCTGAAGA	TGATCTAAAG	AAGGAGCATC	TGCCTTTTCT	180
	CGTAGAACAT	TGAGAGCGGT	TGCCTCTATA	ACTTCATGCT	TATAAGTGGA	AGCACTCGAA	240
	ATAACATGTG	ATAAAGGTGG	AGAGTTGGCC	AATGTGTGTA	AAGCTTCTAA	TTCTGAAACG	300
	GAAATTAGTG	CATACCCAGC	AGCTGCAGCT	TTATTCTTCA	AATGATCGAG	AGAAGGTGAT	360
	TCGGCTACTG	TTCTCAAATC	CAGAAGAACG	TTCGAATCAA	GGATTTCCAA	GTTTCTTTCA	420
	GATGCATGTT	TCTTGAGGAA	GCCTTCATCT	GGGCTCTCCG	TATATCTGCT	TCAACTCATC	480
	CATAGTAATC	AGCAGAAATG	ACAATCCATA	TATGGTTCTT	GGCTTTCTGT	TGTAGTTAGT	540
	CGATGGCTGG	ATTTTCCCAT	GGTAGAAAGA	AGAAATTCGT	GCTCTTTCTT	TTCAAACAAC	600
	AAATATCATA	TGCCCTTGCC	TTTCTCCTGC	CAAAAATCCA	AAATTAGANA	TTTCTNATCC	660
	CCTTTAATAN	TTCCACATGT	TCCCAATTCC	TCCCATNANA	TNACTGTCTA	ACTGTTTGTT	720
	GCNNACCCAA	AAANATTCTT	TCCTNTCCCT	TTTCCCCANA	TGCTCCTTTN	CCAGTC	

1331UP

	GATCGTGC	CTGCTCCACG	AGCGGCTGCC	CAAGGCCACG	CGCTCGGACG	TCGCTGCAT	60
	CAAGAGCTAC	GTCTACGGCG	ACGGGCTGGA	CGAAACCCCG	TGGTGC	CCCATGCACG	120
5	CCCCCGGAC	TGCCCCGCGC	AGTCGCAGGA	ACGCCAGGGC	ACGTGCGGGC	CGGGCGACGA	180
	CGAGCTGCGC	ATCTTCACGC	TCTCGCAGCT	GCTGGAGGAC	CAGTCCGCGT	CCGAAGATGT	240
	CATCCCCGAT	AGCATGGATG	CGGGCGACGC	GGTCAGCCTG	GGCTCCCCGC	AGCCCCAGGC	300
	AGGCCTCTCG	CAGCACAGCT	TCTGCCCAGA	TTCCACGCAC	GCGTCGCCCG	TTGGCGCCCCG	360
	CCGGTTAACC	CCCTTGACGC	GCGCGCCCGC	CTCCCCACTC	CCCGTCCGCG	TGTACACCGC	420
	GCCCCGCTCC	COGCTTGACT	ACATTCCCGA	CAGCAAGGGA	TGAACCCCTA	CGTCTCCAG	480
10	GGCCCCAGCC	AGGCCCCGAG	CCCGCCCTCC	CTGNTTGAAG	GTNNGAANGC	CACCCTNCCA	540
	AAANTTTAGG	GGTNGNGGCC	CNNGGCGCT	CAACCGNTTG	GCGTCCGNAA	AANCCNNTGG	600
	CGGCGTNNCC	CCNNCTTTAA	GGCGGCNTCG	AACNCNGCNT	NTTTCGGGNA	GGGTTTCCAN	660
	ACNCAAACNG	TNNNNCCCCC	CCTTTTTTCT	TCNAANAAAG	GCCTNTTTGT	GTCNNTTCCG	720
	CCNGGNNNGN	AATTTTNTTT	TGTGGGGCTG	NNCCCTNAGA	AAACNCCNC	NGGGNCNNNG	780
	GGGAAAAAAA	AANTTTTTTT	CCNTNGGT				

1332RP

	GATCTTTTAT	GTTCCTTTAG	AGCAAGGTCA	ATTTTCACAC	CACTTCTATC	ATCTTATATC	60
	CAGAAATAAT	TGAACAAGAA	GGTACCGTCT	AGTGAACGAC	GTGATTTTCA	GCCGGCGTCC	120
20	AAGGTTTCATG	AGTCATTACT	GAAATGAAG	CAGCACTATA	TCGAAATAG	GTGCTCGAA	180
	CTACAAAAAC	TTCATCAGTT	ATTCTGTAAA	GATAACGTGA	ATTTTTCCAA	AAAAATGATA	240
	AATGTCGAAG	AAAGAAGAAT	CGTAAATCTT	CTAAATGACC	TAGATGATGA	TGCTAACTTT	300
	ACTTTTGAGA	CTGTCCATAC	TAATTTTG TG	AATAATGAAC	TATTCATGGA	ACTACATGAT	360
	CACAAAGTCAG	TGATATCGCG	CGTTTGACAC	TTAGATACTG	CGGAGGATTG	CAATCGCATG	420
	AAGAAAAGGT	TACGACCATA	TACACTCAGC	TCCTCGACTA	TTTCAGGCTC	AAGTTGTCCA	480
25	ATATTGATGT	AGATCCAACC	GCCACTATGA	ATTTNAGTTC	CGAAACTCCN	TTGANCACTG	540
	TTACCTCCTT	ATTGTGTTTTG	TTACNCCAA	TGATCCCTCC	ANTTTCCGAT	TCTGGAAAAAT	600
	GGNGGAAAAAC	CNNCGAAANT	GCNGAAAAAC	CTAAAAANAAG	GAANACCGTT	AACNGGGTTN	660
	GGAATGTCTA	TTGGGGGGGG	GCCNNANCTT	TTAAAGNNNC	TTTCNNGGGG	AANANNCCNN	720
	NCTCCCNINA	AANTTTTTTT	CCCNGGGNAA	AAANTTNTCT	GG		

1332UP

	GATCTTTTTC	AGACGCAGTG	TACTATCGAT	GAAGCATATG	ATTATTATAC	AAAACTTCTG	60
	TCCGATACTA	TTGCATTAAA	CCCCGCTTAAT	AGAAAACGAAT	TTTTGGAAAG	TTGCGACACA	120
	TTAGAGATGT	ATGGAGTCGC	TTCTATTGAA	AATGGCAAGC	ATGGCAAAAA	GGCCAAACAA	180
35	TTGGTAAAAAC	TGATCAAGAG	TACAGTTGAT	GAAAAGGAGT	TCCATGATGA	AATATGTNAG	240
	ATGGACTTGC	TTAAGAAATT	GATAATATAA	AAGGCTACGA	GCTTCAATAT	TATAATACGC	300
	ATTGCATAAT	TTATTACATT	AAATTGATAT	AGGTATATTT	TTCTTCGAAG	AATTAATTCT	360
	AATCATTTCC	ATGTGAAGAT	ATCGCCCTCT	GTGTTACCTG	CGGATATTTC	GACTCTTAGT	420
	ATATCTACAT	ATTTTGCGGA	GCCATTATTT	AAACTCGCCA	GCTTGACTCT	GGACCCAAGA	480
	GCCGTAATGG	CAGCAGCTCT	TCCTGAGCGC	AATTTCTTCC	AGCAATTGAG	GCACCATGTG	540
40	CCGTCCCTTTA	ATTCCAGCAC	ATATAACAGA	CCGTCCCGTC	CAATAACCCCT	AACACAATTA	600
	TTCCCTTTCT	TTCCCATCAT	GTTTCCGATA	CTGGACATTC	CCTGAAATGC	AANTTTAACA	660
	AGCCTTATAC	CAGTGAATC	NTGCGTTTTG	AAANATGCCN	TGCCAATTTT	AACCCGTGAG	720
	GTGCGTAACC	TGAACTTTTT	TTGAAATTTT	AACCCCCCA	ATNANTNTTC	NTTTTTGNAA	780
	CCCCATGCCT	TGTTTCNCT					

1334RP

5	GATCATAATC	CAGTCGCTGT	CGAGATACTC	GACAGGAATG	GACGTCAGCG	ATTTGCTCGA	60
	AGAGCGCCGG	AAAACCTTGT	CCGTTGGCTC	CGGCGTTGCG	GTGAGCGTCC	CGGGCGGGCGT	120
	GCCACCGCTC	GACTGCAGCC	GCGCACGCTT	CCGCATTATC	TGGTTCATGG	AGAATAGCGA	180
	CGATACTGGA	CGCTTCATGA	TGCACTTTAA	GGCCACAACC	TCGGCCGTAT	CATGCTGGCC	240
	CCGCGGGCAC	CCGGCCACCC	GTCGCCCCCG	CAGGACAGTC	CCGAAACGGC	CTCGTCCTAA	300
	CCGACCCTCC	AGCATATACT	GGTTCACCTG	CACGCTTTCC	CGGCCCCCTA	TCAGCCGTGT	360
10	CGTCTTTTGC	AGCAGAACCA	TCGCCACCAG	CTTGTTATAC	TCCTCAAATA	ACGCTGCGTA	420
	TGTTACTGCG	TCCCCGCCGC	AACCGCTCCT	CCCCAACACC	GTGTCCGTCA	AACGAGAGCT	480
	GCTACGGCTG	GAGATGCTGC	GCAGCAAGAG	AGAGTGCTC	CCTTCATTGA	ATTGCACGAT	540
	AGTAGGGTAC	GAACTCATGC	NCCCTATGCC	CTACACCATG	NANCTGGTTT	CTATTGTTNN	600
	TCNGGCCCCC	NATNNCTGTT	CCAACNTTNN	TTANCTGGGC	CACNTTTTTT	TNTGGTTGCC	660
	CCCCGAACCT	CTTCCCTTA	ACCAATCCTG	GCCCNCTTTC	NCAACAGGAA	ACCTTNTGAA	720
	CACTTTCCCC	NAAANGTNGC	GAANAAAAAN	TTTTTTTNAI	TNCCCT		

1334UP

20	GATCTTGCGC	GGCTCCGGCG	AGCCGGACAG	CGCCGCCGTG	GCCATTCTGG	AAAGCGCGTC	60
	CGCCGGCGGG	CCGCCGGTGC	GCGGCCCTAGT	CCGGGCTGTA	CAAGTCGCCC	CGAACAAAAC	120
	GCTTTTTCGAC	ATCACTCTCA	ACGGGCTGCC	CGGGCCTGCG	CAGTACTACG	CCTCGATCCG	180
	CGCGTCTGGT	GATGTGTCCC	GCGGCGCGGC	GTCCACCGGG	CCCGCGTGCC	ACGTGTTCTGA	240
	AGACGCCGTC	GCGTGCAGC	GCGCCAGCCC	GCTCGGCGCT	GACCTCTGCG	CGGGCTCCGC	300
	CCTGTTTCGTC	GCGCCGCTCG	CCGTGCAGGC	GCTGATCGGC	CGCGGCTTCC	TCGTGGGCGC	360
	CGACCGCGGC	CACGCGCTCG	CCGGCGCCGC	CGCGTCCGGC	GTGCTGGCGC	GTAGCGCCGG	420
25	CGCGTGGCAG	AACGACAAGG	TCGTCTGCGC	GTGCTCCGGC	GACACGCTGT	GGCAGGAGCG	480
	CGGCTCCGCG	CGCTCCGCGA	ACATCGCATG	AACTGTATAC	TACATACTCG	CTACGTTGTG	540
	CTCGCGCCCC	CCGCCAAGCG	CTNCTCCAN	CCGGGGGGGC	CCGCGGGGCC	TTCCAACCTCA	600
	CCGCGGGGGG	GCCCCGCGCTG	GCCCCGAAAAC	CCCCTTCCGC	AACGNCCAAN	AANNCCANN	660
	CCNTACNACN	CCCANTTANC	CAACACNTTC	NTCAACGGGT	TNNTNGCCCC	CCCCCGNCNC	720
	TTCTCCGGNG	TTTTTTTTTTT	CCGGANNATT	NCTGNTCCCN	CCGTNTCCCN	CCTTATTTTG	780
	NNNGCCCCC	CCCCC					

1335RP

35	GAGGCAACGG	AGGTGGCGGT	GGTATCAAAG	GTCTGGTAGT	CGCTATGTCC	TTTCCGAGCT	60
	TTTGGGGTTT	TGTGGTCTTG	CTTTTGTG	ACGCTAAGGT	TGGGCGCGGC	GAAATCACAT	120
	GCAGTGGGCG	CGATTCCAGG	TCCGCCAAGT	TAATGGGANA	CACCGCGCCG	CTCAGCATAG	180
	TGCTGTGGGT	CCTCCTATGT	GATTGCGACC	CAAAACGTATG	GTCCGCCCTT	GGGTGTGTCAT	240
	TTTCTGACGT	TGTTATTTCCC	TCCGGGCCAC	TAAAACCTGCG	CCTACTCTGA	TTCTCTGTCA	300
	GTAACGCAGA	GTAAGACACA	CGCTTGCTTC	GTGTGAGCGA	TAGTGTGCGA	CATAAATTAC	360
	TATGCGGGGA	NCCNTNCCAA	NTTTAACCTN	TGNNAANAAA	ANACCCAAAC	TNTTTCAAAA	420
40	CCCAAANTTC	NATTTNGGGN	NCNGAAAAATN	CCGNTTGGGN	AACCCCCCGT	NNNGGGGTTT	480
	AAATGGGGTT	TCCAAAAAAA	ACCCNCCANT	TTTCCCCCCC	CCCCCNAAAT	TNTTAAAAAN	540
	NCCTTTTAAA	AANNTNNTTT	NTGTGGNGNC	CCCCCCCCC	CCCNAAAAAA	AATCCCCCN	600
	AAAAAANCNG	GTNTTTTCCC	CNTNGGGGGG	AAACCCCCC	NAAAAANCNN	ACNTNCCNAN	660
	NNGGGGNCCC	CNNCCCCCN	ANCNCNNTGG	TNCCCCCCTT	TNANAAAANG	GNCCCCCAAN	720
	CNTTTTTTTN	NNNNNNNNAA	AACNCCCTTT	TCNNCCCCC	CCCCNNAAAA	AATTTTTTNN	780
	NTNNNTTTTN	G					

1335UP

	GATCAGATAA	GAATTGAAGC	TCAGCGGCTG	ATGAGCGCAC	TGCTTCCGAT	ACGGTGGTCC	60
	TGTACCAGGC	TGATAAAATG	TGACACTATC	ACCATAATGG	GGTTGTAGCT	GGATACGATG	120
5	TCCGGATGCG	GATGGACTGT	TCTGAACAAG	ACGTGCAACG	TCCGAGGCC	ATAGTGGGAA	180
	ATCTAAATTAA	CGTATTTACA	TATCAGTGCG	GATGTGTCTA	GGTGCCGGCC	ACCTCGATTT	240
	CCTGTCACTG	GACAGCGCCG	TCATATAAAC	ATTATTGTTT	AGGGTTTAAA	GTTGCTTTGT	300
	GCGGTGGAAA	ACAACGTCAC	ACACTAACTA	AACTCTAATC	GAGCCAGCAA	GCAACTATGT	360
	TAAATAAGCC	GAACAGTTTA	CGATTCCAAG	GGCACGGTGG	AACCCCCCAA	GGCCCCGCTC	420
	CNANTCNTTC	CCTTACAAAA	AGGGAGGGGG	GCCCTACCAC	TACCGAAACC	ATACNGGTTN	480
10	NAAACAACCC	NAANCCCGTT	TTTCCCCCCC	CCAAAAATTAA	ANANTGGGCG	CCCCCTGNNC	540
	NCNATTTGTT	NNTNTNANGG	GGANAGGACC	CCCCCCCGGG	GNNNGGNTCC	CCCCNNTCNA	600
	AAACCAANNAC	CCCCACCCCN	ANAAAAANGG	GGGGGGGGGN	GGAACNCCCC	GATTTCTAAA	660
	AAATTTAAAA	ATTNNNNNGAA	ACCGNAAAAC	GGNGTGNNCN	TNCCCNNNNG	AAAAANGTTT	720
	TTGTNGNNNA	CANCCCCCAA	CNNTNTNAG	NNNCCCGNNC	CCCCAAACNN	AAAAANTTNC	780
	TNGNANGGGG	AACCANTCCC	CCCCCNT				

1336RP

	GATCATGTTT	AACCCAGATA	CGAAAACCTGA	GAAGCTAGAG	TGGATAGAAA	AGCTGCGAAA	60
	AGTAATAGAG	CTGAACAGGT	TTCACCAACC	ATGGGTTAAA	AAGTTCCTGA	ATAGCAGTGA	120
20	GAATATTCTC	TGAAGAAAAG	CATGACCACA	GGATTACATA	GAGTAACTTT	TGTGCAAAGT	180
	TTATCTGTAT	GTACAATTTT	ACGTATATAA	TTTTAAAAGT	ACTCGGGCAA	AATCGGCACT	240
	TGGTAGCGAT	AACGCACACT	CGAGTGAAGT	CCATCCAGTA	CATAAACATT	ATGTCAACTA	300
	CTTACCATTA	TTGCCATTGC	CAGATGAAGT	ACCCATGTTT	TGGTGATTGC	CTGACCCATT	360
	GTTACCACCT	GCAGCGCCCA	GGTTTGGGGG	AATCATGCCA	GGAAAAGGAA	AGGGCGGGAA	420
	ACCCCGAACA	TGGGTGGCAT	ACCCATGGGA	AACGCCAGGC	GGCTGCGGCA	GAGAACCGTT	480
25	GTTTTTGTTC	CGCCAAAATTG	AAGTTCCTTG	GTTTNCNNNN	CCCCCGGCA	AAAANCTTAA	540
	CCCCGTCCCC	CNGCCCCCN	TCCCCCAANC	TTTCCCNNTG	NNGTTGGAGC	CCCCAAACCC	600
	CCCCATATNT	TNNTGCGGCC	GGGGTTTNTN	CCCCCNGGGA	GACCCCCCCC	CGCNTTGTGN	660
	NTNTTACCCC	CACCCNCCCC	CCCCCGGAA	ANCCNGTNTT	AAAAAATNCN	AANAANNTNT	720
	GGCCCCCGNG	CTCCCCGGGG	CTCCCNATATA	CCCCCGGNN	GTAAATTNNC	NAAGNGGNCC	780
	CN						

1336UP

	ATCGCCATTT	TAGGGATGAT	CCCGATCACC	ACAGCTCCGA	GGCCCTTGTA	GAAAGCCAGC	60
	AAGCCCTCCC	CGCTGTAGAT	GTTGGCCCCC	GTGCGCAAAA	ACCCAGGGGG	CTTCGTGCCC	120
35	TCGTTTCGCG	GCCTGTAGAT	CTGCAATGCG	ACCTTGATCG	TGTCCAATGG	GTGGCAGCAG	180
	AGCGCCTCAA	ACAGGCCCGC	GGTCCCGCCC	GCAACTAGGT	TCACGGCCGG	GTTGGTAGAT	240
	TTCTTAGACG	ACATGTGGTT	ATCAGGGTAT	GGCTGCTGGC	ACACTGCGCT	GCACGGATCC	300
	GCTACGCTTC	TGCGTTCGCG	ACCTATATAT	ACAACGGGCA	CCGACGGCGG	GCCGCCCGCA	360
	CCTTGCTCTC	GACGCAGCGC	CAATAGGAGC	TCGCGCATAC	CCCCGGGCGA	ACGCGGTGAG	420
	TCAACCCGGC	CCGAAGCGCG	GGCCAAATGA	ACCGTCACGT	GAAAAGCAAA	GACTTAAAGT	480
40	ACTATGTAGC	TACACACTTA	GGCCTCGGCC	ATCTCGCGCA	GTCTGCGGAT	CGTGGAGCGC	540
	ACGTGCGGGC	GGCAGCCGTG	GAGACGTGTT	ACGCACCACC	GGCCACAGTC	NTCCTTTGCA	600
	CNAACCTGCA	NTTCCCAAAN	NCCCGNAGCG	CCGCGCTTCN	CCGCCCTCTT	TGCCGCAAAA	660
	AGAACATCCT	TACCAACTTC	TTGTTCGCCCT	NCCACTTCTT	NAACCTGTTT	CCNNCACGAA	720
	NAANCCTACC	CCCCCCNTT	TTNCCGNNA	TCCNACCTTN	TNCNTNCTTT	TACCATTNTT	780
	NTTNAAAGGG	TGN					

1337RP

	GATCTTAATT	TAAAATTTTA	ATTAACATTT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATAAAAT	TAGTAAAATA	120
50	AATAGAAAAC	CATAAGTTAA	TTGATTCTAA	AAGAAAAATG	GAATTTATTTG	TGGCATCTTA	180
	ATTTTATTTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTTAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420

	TTTCATAATA	TTTATTTTFA	TTAGTCTAGT	AATATTTCTA	TTTAATAGTC	TCCCTTTAAT	480
	TGGATATTAC	TACCTACTAA	ATATTTACCT	AATAATATAT	TATTAAGAAT	ACTTAAATCT	540
	AATAATTTAT	TATCTAAAGG	TATATAAATT	AATTAAATCC	TTTTTTATTA	TTATTTAAAT	600
5	TATTATTAAT	AGTAAATTAT	ATTATTTATT	TTATTCACCA	TAATTTTTTT	GATNATAATA	660
	TATCCTTTNN	TAAATGGGGA	ATTTATNAAT	AATTANCTTC	NANGAATTTT	AATGAANAAC	720
	CCCCNTTANN	ATAAAATTAG	TTAANNNTGN	NCTCAAAANN	CCNATCA		

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1337UP

	GATCAATTAA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
5	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAATGA	ATACTACTAA	ATCATCATCT	120
	ATTGAGTTTA	TATTAATTC	ACCACCTCTT	ATTCAATTCAT	TTAATACTCC	TCTAATTCAA	180
	TCCTTAAATA	TTCTTAAATTA	TTAAATTATA	TAATAAAAGT	TAGTGGATAT	AGTTTAATTG	240
	GTAAACATA	TGTTTTAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATTAT	300
	ATCATTAATA	TAATAACTCT	TTAATTAGAG	TGGTACCACA	AGAATGCTGA	AAGCATTAGG	360
	GGTGTGTACC	TTAGCTCTCT	AATTAAAGTT	ATAAAATTAT	CTTAACTAAT	AAAAATAATT	420
10	AATTAAATAA	ATAAATAATT	AATTAAATTT	AAAATGTTTA	AAAAAAGAAA	TAAATAATAT	480
	GTTATATTTA	AATAGATCAA	AATTTCAACA	ATTTCCATTT	CATTTAGTAC	TACATCACCA	540
	TGACCAATGT	TACATCATTT	AGTTTAATAG	GGTTTACTAA	TAACCTTTAN	CCTTTTACCA	600
	AANNANNGGT	ANTANTNGGA	AAAATTATNC	CCTTAATAAT	AACCTTNATN	AANNNATTNT	660
	ATATACCAA	ANNNTNTGAN	ATTTNAAAAA	ATATNGGCCG	AANCNNCNTA	TTTTGNGTAN	720
	CCCCNCNTA	CNCCNGAAAA	AANGNTTACC	CGTGTTCCCC	CNTATNNTGN	NTNCCCNAAA	780
15	ATAAAAAATG	NGCCCCCAC					

1338RP

	GATCAACCGC	AACCCGTCAC	TCANGTCCAG	ACCGTTATAG	AGACGGTTCGT	CGATGGCACT	60
20	ACAAGGCCGG	CAAAATGCTTT	GCTTATGAAT	AGCACGGTTG	AGGTGATAAC	CGTTAAGGAA	120
	ATAGTGAAGG	AGACAGTTTT	CGTGAAGTGA	AAGGTGACTA	ACTAACTCCA	ATGCAAGCAG	180
	AACGCTTTCT	GTCCTTTTGT	CCAAACCTAC	CTGAACACCT	AAACTTAGTT	ATTACAACAT	240
	GAGTTTTATT	TACACAGTAG	GGTGCCACAG	CCACAGGAAA	TATCCAAAGA	AATTAGCTTT	300
	GCCTTGATAA	AAGATATTTCA	TCCCTATTCA	GCGACCCCTC	TAATACGCAT	TCTCTAGAAA	360
	GTTCCCTGGC	TTTCATTTTA	AATCCTCGTG	CACCTCGTCC	GTAACAGTGT	CTATAGTATC	420
25	ATTCCGTATC	ATTTCTGAAT	GAAGTAGATT	CCATATCAAC	ACTTGCTTTG	GTGGAAAGCT	480
	CATTATCTCG	AGCAGTAATG	GCTTCACCTC	TATCCTGTTC	CAACATACTT	TTTTTAGCTG	540
	CCCGGATTAA	CCTCCCTGAA	TTCCCTTACG	ATGCAGTCGA	GACCCATGCC	GATTTATCAA	600
	ATTTATCTGT	CCTTTAAANA	ATTTTAAACC	TTTGACNCCC	CTATTATTAT	TTTTTAGCNT	660
	ATCGTAATGC	TGCCNGANCC	CCCNAAANGAN	ATGGGGTTTT	CCNTATTANC	CTTTGGTTCC	720
30	CCAANTTAAA	ACCCNCCCCG	GNCCCCCCCC	CCCCCACCEN	GGTGGGANAA	T	

1338UP

	GATCAGGTTT	TCCGGTACGT	GAGAACGTAT	CTAAGGCACA	AAGGGCTTTG	GGCGACTGTG	60
35	CGGACGCTTG	AGTTGCNAGA	TACAGGACAA	AGCTGTTACG	GCGGCAACTG	GTGCANCACG	120
	AGCAGCCGAG	GAGCGATTCT	GCGCGAAGCG	ACGGTGAATT	CGAGCCAGCT	GGTAGCAGGA	180
	GTGCCGGATC	GTCTATTTAG	TTGCGACGGG	CGTCGGAACA	GGATGCACGT	AAACGTTGCG	240
	GTAACACGCG	ACGCTGACGC	GACGGCTGCT	ACGCCGATAG	CACGGGAGCG	CAAACGACCG	300
	CAGCCGCTGT	CGCCAGAGAT	GTCTTCACCA	CTGCGCGGTA	GCAAGCTGCA	GCGGCGGAAG	360
	CAGACACTTG	AGGCCGGTCC	GGGTCCGCGC	AGTGGGACAC	ACACGGTGGA	CGAGCTGGCC	420
40	GCGCAGCTGG	AGCGCGGCTG	CGAGCAGGCG	TCGGAGCGGA	AGCCGCCGTA	CTCGTATGCG	480
	GTGCTGATCG	GCGTTGCGAT	CCTACAGTCG	CAGGAGGGCA	GCTGACGCTG	TTCGCNAAAA	540
	TACCGNTGNA	TTTCCNCCNT	CTCCCCCTTAN	TAACCGGTGT	TTTTAACCCG	GGGTTGGAAA	600
	ANANCTTCCG	GACNACNTNT	TNCTTAAACA	ANGGTNTTGT	TTTAAGGGGN	GGNNNCCCCC	660
	TCAAAGGANG	GGCCTTTTGG	AAAATTAAGG	GGGCCNTTNA	NGGGGGCCTC	NCTTNNCCAA	720
45	AAAGGGGAA	TNATTTTNNG	GGCCCANATT	TNNCAAAAT	TNTNCANTAG	GGGGNCTNNG	780
	NNAANTTTNT	TCNCTT					

1339RP

	GATCATCGCC	TTTAGGCCCA	TGTC AACCTT	GCCCCGACCG	ATCAACTCCG	TCACGTGCGA	60
50	CGGGTTCTGT	GGCTCGAGCA	GCGCAATGTC	CACACCCTCC	TGCTGAAAGT	AGCCCTTGGA	120
	CTGGGGCTAGA	AAAATCGCAA	TGTGGTATGG	CGCAGGCTGC	CAATTCAATA	GGAATGAAAC	180
	TTTGCTAGAC	ATCTTCGGTG	CAGTCTCCGC	AGCTACACCC	CATTGCATCC	AGGCTCATCA	240
	GCCGCTTTAT	ATACCGCTGG	GCCAAAGATG	ATTGAATACG	GTTTCGCAGAC	GGCTACTGGA	300
	ATACCCGTCG	CGCCACAAGC	CCGCCACTGG	ATGCCATGCG	CCAATGCGGA	AGCCTCCTAT	360
	GTGACATGTA	CTAACAGAGC	AGCTTCCTTA	TGCACTTATC	GAGCCAAAAC	CAACATCTGC	420
55	GGAATCACAC	TTGACGGAAAT	CCGGCCCCAT	GCGCAGCTGC	TGGAACACAA	AATCCAGCAA	480

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5	CTAATAGGGC	TCAGTGGTAT	AACGGCCCAT	CGCTCTCTCA	ACGCCAAGTC	CCTCTCTGGG	540
	GAAAAACATGT	GATCACGTGC	TACATATTCA	ACCCCCGTCT	TACCTCATAG	CTGCGCATGT	600
	CCAGCCCTGA	ACTGTTCCGA	CCTTCCGTCT	TCCNGAAANC	CTGATTGCCT	TGCTTTAATT	660
	CCCCCTCTCC	NCCAACCATG	TNTCGCCCAT	TTACTTCCGT	TGCTTTTMTA	TTTCGTGCAT	720
	TGTTTTTMTA	AAAGNNCCTG	TTAANTAAAT	NCCNTCATTN	TGGA		

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1339UP

	GATCAGCGCA	TTTGTCGATA	GTGGCTTTGA	TTGCAAAAAT	CCGATCATT	CCATGCTGAC	60
	TATACGTCTA	CTGACCAACG	CCTTTGCAAA	CAAAGACTGG	GGCGTTAAAC	TAATGTCGTC	120
5	TGCGCCAAATG	TATAACTCGA	TATTTGGGTT	GATTGATGCA	GACCACCCAA	CTTGCTCTCC	180
	TAAGCAACAG	TCATCACTGG	CCGTAGCAAT	AGCTACCCTA	ATATACAACT	ACTCAGTGTT	240
	GGTAGTAAAA	GAGAACAACC	ATGACATCCT	AGCAATTGTT	GCAGAGGTT	TAAACAACAA	300
	ATACGGCTCC	TCTTCCTTTA	TCCTGCGGAA	CGAGGAGGCC	GCATACAGAC	TCCTTGTTGC	360
	TTACGGAAAC	TAAAGTACTG	TGGAAGGCAC	CTTCGCACAG	TTTGCTCCTT	CTATCTCATG	420
	GATAAGGAAG	CTGAAGAGCC	AGTATGGCCA	CATATCGAAA	TTCCAGGATA	TTTTAAATGA	480
10	TATTTAAAGA	AAGGTGTACG	TATATATCCT	ATTCTTTTGA	TCGCTGTCCC	GAGGCCTTCC	540
	CGGAAAAATG	GTGAAAACCT	CGCTCTTTGA	CACACAGCCT	TTGCCCTTCA	ACAGGATAGT	600
	TTGAAGGGAC	ATGTTCTGTT	GACAAANNCT	GAACCAGGGT	ACTGGTGNAA	AATTTNAANA	660
	TCTTTTCTCC	NCCGAAANCN	ANTTCTNCGG	AANTTAACGG	GAAAAAANC	CCCCTCNCNN	720
	CTTTNTTTAN	TAACCCCCCC	CAGGNTTNTG	ACCTTGATTT	TTACAAAACC	TTTTNTTT	

1340RP

	GATCGCCTGA	TATCGACAGG	CACTTTTGTA	TATTAGCAGT	ATTCTTGACG	AGATAATGCA	60
	GTCAACTCCT	ATATAGAAAC	CGGATACAGT	GGTAAAAACG	CAAAATGTAGG	CAATTATATA	120
20	TTACTCTTCT	CGACACCACT	AACCTTCTCGA	TAGCGGCATA	TCCTGTAAAT	TTGCATACAC	180
	CTTTTCCCAA	CTTTCAGTGG	TCTCGTTGCG	GTACTTTTACA	TGCATCTTGG	CCCATTCTCTG	240
	GAAGACATGT	CTATCAAAAT	ATTGAGTCTC	CTGGAAAATT	ACAAAATTCCT	CTAAAAATGCA	300
	CTTTCTAATT	AGCCAGGACC	TGTTTAGTTG	CTCAGCAATT	GTCCGTTTGT	CCCGTTGAAT	360
	TGTCTGTCTG	AGTTTATCAT	ATTCTGCACC	TTTAACGTCC	GGATTACTCT	CCATAGATTG	420
	AAGTTTGTCC	ATATTTATTT	CCACTCTCCT	CTGCAAATGT	GCTATGTTAT	TCCCCGCCAT	480
25	AAATTTATAC	CTATCAAAAG	CCCCTTTCAAT	GCTATAATAA	TATCTATGAA	GGTCTTAAAC	540
	TTCACCGATA	GGTGTTCCTC	CACCTCCTGA	CGCTCCTTTC	TTAGAGGTAT	CGGCCACGCT	600
	ATTGAGATGT	TTTTGATATN	NTGGAATAT	GANATTTAAA	TATCNTGAAT	AGTGCCTCTT	660
	CCTATTGGGT	ANAANTGTTN	CNGAATTATC	AANCAATTCC	TCCATCACNC	NGCCAAGCAC	720
	CCNCCGTCTC	TCNAANACCT	GCNCNTNGCC	CCGTNCGGTT	NNNNNA		

1340UP

	GATCTGCTGT	ACCTGAATGG	ACTTTGTCTC	CTGAAGTAGA	AATGTAATGG	CCCCTTCGGG	60
	AATACATAAC	AAACATAGCG	GAGACAAAAA	CAAAAAGCGTT	ATACACGCAT	CTGCCGTTAC	120
	ATCACCGTCA	GCTCCTTGCA	GACCAATAAG	CCTTCAAGTT	AAATATAGGC	TAGCTATAAC	180
35	ATATTATGTC	GCTAAGAAGG	GCCAAATCGT	TGCCATCGCT	TAAGAAATATC	GCTGAGGTGG	240
	CCAAGCCCAT	CACCAAGGCC	CCCCCGCTCC	CCCTGCTTGC	GTTTGAGGGC	CTGGGCTGT	300
	CCACATGTCG	CTGGTATCCC	ACCACCGTGC	GCACAGTGCA	CAATACCCCC	AGTAAGGCGC	360
	AGACGACGCT	GCTCTCGACA	GCGAAGAAGG	AGAGTGCGTT	TTCCGCAATG	AACCTGAAGG	420
	CCTTGCGGAA	CGAGTGCCGC	TCCCGAGGCT	CAGGGTCTCC	GGGCGGAAGT	CGGATTTGAT	480
	CGAGCGCATT	GTCGACTTCG	AGCTGAAGGG	ACCGCTGGGC	AGGCGCGGGA	CACGGCGGGC	540
40	GTTCCACAGC	CCGGGCACGA	GCAGCGCCAG	CGTATGCCGC	CCGTGGACAA	GGTCACCATG	600
	CCCGACATCG	CGCTTGACAG	AACGAACCCC	GTGCCACACC	CTGAGAAAAA	CTACATACTC	660
	CGGANTCCNT	CNTTGTNCCN	CCAAGGGGGT	TTCCCTCCCC	GTTACCNATT	CCNAAAAGAT	720
	TTTTGCCNCG	GAACCCANGA	AGAAACCACC	CGAACTCCCA	GAAGGGGGNT	TTNNNNANCCG	780
	AACCGAANCT						

1341RP

	GATCACATCC	GATGCGAAAC	TCGTATATTG	TTTTCCACAC	ATGATGAAAG	TGAGTGTGGG	60
	GCAGCAATTG	TCCGGTTGAC	GACTCCTATA	GGCCCGGGCA	TGCCACCGTG	ACCAGAAATT	120
	TGCAATGTGA	TTCATGTATG	AAATGGAAAC	CCCATCCAAG	TTTCACAGTC	GCAAAAGAAC	180
50	AGTTGGATCC	TGACAAGGTT	CTTCTGTTAG	GCAGTCTTAT	AGACACTCCG	GTTGTGTTG	240
	CTGCGGATGC	AACGAAAGTG	TCCGCCCCATG	CTTTACTCCA	GGCCCTTTTT	ACCTCTAACG	300
	AAAGTGAAAT	AACTCCTGGA	TGTATTACCT	TTTACGCAAGT	CAGAAACCTG	ACCAGGTTCTG	360
	ACTAGTTTTT	TATTTGAAGTC	CGTGCTGTCT	CAGTATTTGA	AGCAGTTAGT	CCCACGAATG	420
	AGAAACTTAA	AGAATAATAG	AATGGGGAAG	ACTCAAAATT	TACGGCTACC	ATAAGACTCA	480
55	CAGACTTACT	CGACTCGAAC	GTTTTCGTCC	GCACTTTGTC	CTGCGAGTCA	TATACAGAGC	540

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CCTGTATCGC	GTAAACACC	GGATGCGCTA	CAGCAAGGTA	CTCGCCTACA	AGACAACACC	600
CTACGTACGC	CGTTTCACAG	TATGCAAATA	ATNGAAGGCA	TTTCCTCCNG	ACTTTTTAGC	660
NAAAGGNTTT	ATNCGAAGTG	ANCCCTGTCC	ATACTTTATT	CCCCCNANCC	CNGTTTTCNA	720
AAAANCAGNG	AACCATACNA	TGCGTTTAAT	AATGAACNTT	CACNT		

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1341UP

	GATCAGAGTA	GATTTAGTAA	AGAGGTAACC	ACCACTGTTC	CAAGAAGTCC	AGGGCCTTGG	60
	CTTGACCAGC	ATTGGTAAGT	GCTGTGGCTG	GAATTTTGCA	CTTAAACGGT	CTGAGCTCAT	120
5	CTGGTTTCGCC	AAAGACCTAT	GAAGTTTCAA	AACACCAACT	TTGCTGCCCA	TTCTATATTG	180
	AAATGTATGA	CAGATGGCAG	GTGCCCTTACC	GTACACTGTT	TTATTGGTAA	CTGGGTCTAC	240
	ACCTTTTCACG	TTCACCTTTG	CCACATGGAT	CAACATAGAA	ATTAAGAGAG	AGCCAACCTT	300
	AGCCTTGATA	TTGTGCGGCC	AAAGAACTTT	AGACTCCTCA	ATTTGTGTAT	TTCTAAACGT	360
	GGTTTTTGCC	CTTTGGACCA	GCTTCTTGAA	TTCGTTACTA	TTGGCCCTAA	CTTCTTAA	420
	AATCGATTTT	TCACTCTTCA	ATAGTGCTTC	CGATCTGTAT	TCCATCTCGA	CAGCCTTACC	480
10	TATAGCCAGA	ACCGCTCCTG	GTTGTTCTCA	TACCTTCACT	GACGCTCCA	GTTAGAATT	540
	CAAGCCTTTA	CCNATTCCCC	AAATTGTTTA	TGAANACACA	TTTCNCCTNG	ANTNACCCCA	600
	AATTGAAATT	ANGGGGNCCT	TTCCANNCCN	TGAAANAAAA	TGTNGAACGG	NGTTTCAGTT	660
	AAGCCCATNT	ATCACTNGGN	ANCAATCANN	AAAAANGCTT	CCCCCTCCC	TTTTTAAAC	720
	GGGATCTTNC	CAAAAACCN	CCCCCTNAAT	GAACCATTTT	NCGAAANCCG	GAAGCCCNG	780
	CCCTCNCNCG	CTANATTCCN	GCAANNCAATN				

1342RP

	GATCCTGATT	TTGATTTTCGC	CATTGCTGAT	GTTAATGCAC	TCAGTGCTGA	TGTCCTATAT	60
	ATCCAGCATG	AATTATCCTG	GTGGATATGC	GCTATCTGCA	TTCAACAAAT	ATGTGCTGGA	120
20	CAATAATATC	TGGAATGCGA	CCGTCCACCT	AGATGCTTTC	ACTTGTATGA	CGGGTGCAAC	180
	GCTGTTTGGA	CAGCTGCCGG	ACTCCTACGG	GATCATATAT	GACAAGACTG	AAGGTGATGA	240
	ATTATTGGAC	GCATGGTCAT	CGTTTCGATTA	TGTCTATACA	ACTGATCCCA	ACAGCTCACT	300
	CCCTCCTGTT	ACAGGCTACA	AATGGGAGCG	CATCCAAACT	ACTGAGGCCT	TTGACCGCTT	360
	CGACCTTAAA	ACTATACCGG	AAATAATCAA	CTCAGAAAGT	GCTAAGGGAT	TCCCTATCTT	420
	AAAAGATGCA	ATACTCTCTG	CAGACCTGCA	ACCTGTGAAG	GCTGCGTTCA	CAGATGTGAT	480
25	CAGGTGCAGG	GATTTCAGTG	ATACATATAA	AAGAGTTGAG	AATTAATAGA	ACCAGCGCTC	540
	CGCTTACGGA	CAGTTTCCAT	ATAAATATTT	ATTTATTTAA	CTTAAAAGTT	CTGCGAGTTG	600
	AGGAGGAATT	TGACTGCTGG	AGATTCCGAC	ATACTGAAAA	CATAAAGTGC	ACATTTACAG	660
	GATTCCGCAG	TTACTTGATT	CCCCNTCCTN	NNCCTTAAAT	GCCTGATCNA	ACTTNAACA	720
	TCCTATTGAA	CCCCCTTTGG	TGNTCCAANC	AAANTNTAA			

1342UP

	GATCGGGCAG	GCCGCGGAGC	AGCAGTCGCG	CGCCTTCAAG	GAGGCCGCAG	ACTTCGGCGC	60
	CATCATTCTG	ACCAAGATGG	ACGGGCACGC	CAAGGGCGGC	GGTGCCATCT	CCGCGGTGGC	120
35	CGCCACGAAA	ACACCCGTGA	TCTTCATCGG	CACAGGCGAG	CACGTACACG	ACTTCGAGAA	180
	GTCTTCGCCG	AAGTCGTTTCG	TGTCGAAGCT	GCTCGGCATC	GGCGACATCG	AGTCGCTGCT	240
	GGAGCAGTTT	CAGACCGTCT	CCAACAAGGA	GGACACCAAG	GCCACCATGG	AGAACATCCA	300
	GCAGGGCCGC	TTCACGCTGC	TGGACTTTCA	GAGGCAGATG	CAGACCATCA	TGAAGATGGG	360
	CCCCTGTGCC	AACCTCGCCA	GCATGATCCC	CGGCATGAGC	GGCATGATGA	GCGGCATCTC	420
	CGAGGACGAG	ACCAGCCGCA	AGATGAAGAA	GATGGTCTAC	GTGCTCGACT	CCATGTCCCG	480
40	CGAGGAGCTC	GAGTCGGACG	GCGCTCTTCA	TGCACGAGCC	CGCCCGCATG	CTGCGCGTCG	540
	CCCCGCGGNC	CGGGCACCTT	CCGTCTTTCC	GAAGTNTGAA	AATATCCTCC	NTTGCCTCAG	600
	CCANATGATT	GCCCCGNTT	GGCCCANGGC	GCCNANAACA	TTGGCGGCTC	CCCTGGCNTG	660
	CCCGCCNGCC	CCNGGNATGT	CCCCGCCTCT	CNCCTCCAAA	NGATNTNACC	NGCCCNANCN	720
	TCNNTTNNCT	CAACCCNCCC	NTGANNCCCN	CATAATGGCT	NNNCCGNNGG	GGNCCNNGGC	780
	CCCCATGCCC	CCATTAGGCN	AT				

1343RP

	GATCAACCAA	TGTGTTAAGG	AAATTTTTTAA	CGTTTTCCGG	GGATTTGGCC	ATCTTTCCCT	60
	CTAATTGGTA	GGAAACATAG	TCTGTAGCAC	CCATGATATT	AGCAAGTTTC	CGCCGAAGCT	120
50	GAAGCAAAC	CTTAAGCCTC	TTCACTTGTT	TTTCGGAACA	ACTAAACATT	GCGGTCCATA	180
	CCTGCCTCCG	AATAGCCTCT	GAAGGACAAG	CATTCAATAG	TGTATACGGA	GCATACCCAC	240
	TAGTTGGTAT	CTTATAGTTA	TTACCCATGG	TGTCCTTGTT	GAGCTGACGA	AGAACAAGAT	300
	GGCTAGTGCC	ACTCGATTCC	AAATCTTTGC	ACGGAATCTT	TATGTAGCTG	GAAGATAATG	360
	ATTCTGTGTT	GTTGATGAAG	TCTTGCCCAA	TAATGCTGAT	GTTTTGGGAT	AACTGTATAA	420
55	ACTGCTTTCT	GACTTCGGGC	GACGCATATG	CGCCTGCTTT	TTCAAAATCC	TCTAGCAATA	480

	TATGGCCTAC	CCGTATCTCC	TCGCTGCTCA	GTTTACTGCT	TATATTCTCG	TCCGATAGCA	540
	CTTGTTTTAA	TCTTTTGCAA	AGCACAACAT	CTGTATTCAA	GATATCATAA	TCTCAAACAT	600
	CTGTTTCATGA	CATTCCCTGA	GCTGCGGCAA	CAAATTGTTC	ATCCGGATGT	TGCAACCCGT	660
5	TAAACTCCNC	ACAAATNCAAT	CCCCCGGCAT	AAAATCCTGA	TTTGATCTAT	CNAATGATNT	720
	NCNCCCAACC	TCTTG TGACA	ACCCCTCNCAG	TCCTTACAAC	CCTACCCGTT	ATGATTTTNG	780
	NAATTCCCTAC	CCTCCNGCAT	TTAGTTGTTC	NNNATACCTT	TNGNCCCCGG	GGNGGACTTA	840
	TCAN						

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1343UP

	GATCGATTAA	AGGAAGCATC	TGCTTCCCGT	CATATCATAT	AACATTGTAC	CCGGGGCTGA	60
5	GCGGGACCAG	TAGCGAATTT	GATAGCAGTG	TCTCCACGT	CCCCGCTCCA	CTGTGAGCTC	120
	CTTAAAGTAT	ACCGGCTTCA	TACACCAGTG	CCCACAATGA	TGCGTACTTG	ACTTGTAATC	180
	GAGAGCATTG	GGCTTATACT	GTGATTACGA	TGAATGTAGC	CAAGAGAGAA	AAGGTTCAAT	240
	CACGATATAC	AGTACTCACA	TTCATGGCAT	GCCATCCCCA	AATTCCAATA	CAGCCATTAG	300
	CACCAATGTA	GCGCTACTAA	TCCGGCGAGC	TTAATTGGCG	TCAGTTCAGA	GTGAATCTCG	360
	AGCTTAAAAG	TCAGATTGAT	TAAGTAAGAA	AATGACGATC	AACAGGGTGC	TCAAAATAGT	420
10	TGATTACCAG	ATTCCGGGCGT	GTGGTCTAGT	GGTATGATTC	TCGCTTTGGG	TAAGCGAAGT	480
	TGCGGCTCAC	TGcGGcTTAA	CTACTAAACA	TGTGAgAGGc	CCTGGGTTCa	ATTcCCAgCT	540
	cGCCCCAAAT	TTTTtGCTCT	CGCCTCCCGC	GGGAAAGGTG	AATATCATTt	TACAAGTAGT	600
	TAACTCCTCC	CACGTTACGT	CCTTCTGCAG	ACAAAGTTGCA	GCGGTTTACA	ATGCTCAGGC	660
	TATTTTGCGG	CTTCAA					

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1344RP

	GATCCTTGCG	TACTAAGAGT	TAGACTTTAA	TTAATAATAT	TATTTGTAGA	AGATAGAAAC	60
	CATACTGACT	CACGTCGTAT	TTAACCCAAAC	TCACGTAACC	TTTTAATTGA	CGAACAGTCA	120
20	AACCCCTACTT	AGCTGTTACA	ACCAAGAGGA	TAGGTTGAGT	CGACATCGAG	GTGGCAAACA	180
	TAACCTTACAA	TAGCTACTCT	ATCGTTATAT	TACCCTGTTC	AATTTTGTGA	TCATAATAAC	240
	ATTTAATTAT	TATTTCAATA	ATTCTCATTA	TTGTTTCAGAC	TATTTTCATTA	TGTATTATTT	300
	ATTAATTAAT	ACATATTGGG	CTTTCGTGGA	TATAATTATT	GTTAATCCTA	CTCATATATC	360
	TAGTCGTTGA	ACGTTCTTAT	AACTTTATAA	AAAGGATTGT	TATAAGCTTC	GCTGCAGATT	420
	GTCCCTTTATT	ATTATAAAAT	AAATTTAGGA	GTTCTTTGCA	ATTAACCCAA	TTTACTCAAT	480
25	ATATTTAAAT	ATTGATAATT	AAATTTACAA	ATTTAATGGG	ACTATTAATT	AATCCCTAGC	540
	GTAACCTTTTA	TTCGTTTATC	AAATACCATT	ACAATATGTT	ATATTTGTTC	ATTATGCCAA	600
	ACTTACGTTA	TTGTNCTACT	TGTAGTATTA	CNATTATAGC	ACAGTTACCC	CATCATATTT	660
	ATTTAATANA	TACCCCAANT	AGNTTTTTTT	ANCATAAAAA	GGANCTAATT	TCCCTTTTTT	720
	CNCCAANTCC	NNCTCTCTCA	ATATTNTTAA	AAATTTTAAA	CNNAANTAAG	AAACCCNNNN	780
	TNAACCNCAN	CTTTTTTTCAN	GGCTTTCNAN	CCTNTTNAAT	ANCCCCN		

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1344UP

	GATCCTTATA	AAATGGGCAA	TAGACGTGTT	ATAATATAAT	ATACAAAATT	ATAAATAAAT	60
	ATTTAATAAAA	ATATAAAATT	AATAATTAAA	GTATTATAAT	AATTAATAAA	ATTATTTATT	120
35	AATAAGTATG	GATTTTTAAC	TGAAATTTGT	TAAAATGAAA	TAAGAATTGC	TAGTAATCTA	180
	TTAATAAGAA	AGTAAATGGT	AATACTCTAA	CTGTTTCGCA	CTAATCACTC	ATCACGCGTT	240
	GAAACATATA	ATTAATAAAA	GAATATTAAAT	TAATTTATTA	ATTATTAATT	ATTATTAATA	300
	TTATTTAATA	AATATAATAA	ATATTTTAAT	TTAAATTATG	AATTAATGCG	AAGTTGAAAT	360
	ACAGTTACTG	TAGGGGAACC	TGCAGTGGGC	TTATAAAATAT	CTTTAATATT	CCATTTTAT	420
	ACAAATAAAT	ATATTTTTTA	ATATATTTTA	TAATAACTAT	AATTAAATAG	TTAAAATTTA	480
40	AATTATAAAT	TAATAATTTA	ATAACTTATT	AATTAGAGAG	TTAGGGTACA	TCCCCCTAA	540
	TGCTATGCAT	TATGGTTGGT	ACCACTCTAA	TTAATAAACT	ATAATAAATA	AATACTAATA	600
	TTTTATATCA	ATTAAATTAT	AATTATTTTT	TATTAATATT	TTAATATTAT	TTAATGAAAT	660
	ATATAAATAA	AGTATTATAA	TTTAATAAAT	AAATAAGAAA	TGAAGANAAC	GACTCTCANA	720
	ATTAAATTGC	ATTNATAGTT	TACCATTAAA	CAACATTCCC	TTATTCATAT	TATTTNATCN	780
	ANTAAATTAAT	ATCTTATTAT	TNATTAGAAG	GANAGGNTNC	CNCCCCTAAT	GCTNNGCATC	840
45	TTGTGGTACC	NCNNATTAAA	AAGTTTACAT	NA			

1345RP

	GATCCCAACG	TCTGATTATG	TGTGTGAATG	CTGTTCTCCT	GCTCCTCCTG	AGTCTCCTTA	60
50	GCCTTGCGCT	TGTACACTTT	GCCGTATGTT	CCTGCTGCAA	TATAGCCGAT	GATTTCTGTAC	120
	TTCTCCAGCA	CTGACACCTT	ACCGGCGTCT	TTCCGCTGCC	GATATGGCCC	TATCGAGAAC	180
	ACATTGTTAT	TCGCCATTAG	CATCGGCGAT	TTGGACGTGC	TGGCGCTGCC	TTTGGTATCG	240
	AGAAGCTGCT	GTTGCTGTTG	CTGCGACCAC	AGGCTCCGGG	TGGATGCCCTG	GTTGGATACG	300
	TTGAAATACT	TATTCTGTTG	TGTTTGATGC	TGATTATTCA	TACTATCGGA	GGACTGTAAA	360
	CGTATCCCCA	TAAAATAGAG	AGCTCGAGCT	ACCACCTGAC	GACTTGTTGT	ATTTGTAGTG	420
55	TTAAATGGAT	ATCGGCTATG	TTCTAAGCTC	GTTTTTAAGT	GTAAAACATT	GCAAAATCCAT	480

ATGCACACAG	CTCATCCGGT	TCTACCGACA	ACCTCTTTGC	GACCGGAGCG	GTGGAGCTGG	540
GGTGGATAGT	TCCCGAGCCC	CTATGTAGTA	TATACAGCGT	GCCACGGCTG	CGCTTGGCGG	600
GCTGCAGGGC	CTCAGCACGA	NTGCCCTTC	CNCCACTGCT	TTATCCTCCT	GAAAGCCGTA	660
CAACCNCCGG	NNAAATACGG	GGCACCCAAA	GCNCGCCGAN	GCCCCCGAT	AANAACMTGA	720
CCAGCCNTAG	NGAGGCCCGG	AAANAACANT	GCCCTTTTTT	AGCGGGCCGT	CGCACAAACC	780
CCAAGGNGGN	TCCCCNTTGG	GNNTTTATAAT	NGCCNNGGGG	ANGCCCCNTT	NCTCT	

1345UP

GATCCGGCGT	CAGCGCAAGC	CAGTCTACTG	GGGGACGGAG	ACGCGCACAG	CATTGGCGGA	60
GGGAGAGCTG	GAATATCGCG	ATGACCACAT	TTCGAAGGCA	GCTTACGTTT	ACTTTCCGCT	120
AACGGAGGGC	GCGAGCGCCA	CGCTACGCGA	GCGCCTGGGG	ACGTCCCTCC	CAGAACAGCC	180
CATCGTGTGT	CTCATCTGGA	CGAGTACACC	GTGGACTCTG	CTGTCAAACA	GAGCCATCTG	240
TTTCCACGAT	GACCACGCGT	ACCTGCTTCT	GCAATGGAAG	GGTATGCTGG	TGGTAGCCGA	300
GAGAACTGAA	CTAGCTGACT	TTAAATGGAG	TGGTGACACG	CCGGTGGTGG	TCACCTCATT	360
CCGCGGTCTT	GACCTCCGCG	GGCTCTATTA	TACCAATCCA	CTTCTTGGGG	ACGCCGTTAG	420
TAGGCCGCTG	CTGCATGGAG	ACCATGTCAC	CGCCGACACA	GGTACTGGTC	TGGTACATAC	480
TGCGCCAGGG	CACGGCCAGG	AAGACTACCT	AGTAGGTCAG	GCGCACGGCA	TTGAAGTCTA	540
CTCGCCAGTC	GACCATGAGG	GGAGGTATAT	TCTGGATGAT	ATTCTCTCCAC	ACCTCCGTGA	600
TATGCTAAGA	GAAGAGAGCG	GTAAGCCGCT	GAAGGTTACA	GACCACAAAG	ANTGCNNGNT	660
CTTCATCAGT	TTGCTANAAA	AACCCAAGAT	GCTCCTGCAT	TCCCTGAATA	CCACNCTCNT	720
NTCCCTNCAA	TGGAGTCNAA	NAACNTGTTT	TCNAGANCTA	CCCNCCGNTN	GTTGCNAACT	780
GATGGACTGA	ACTTCCCCCN	GGAAACCTGA	ACACTTTATT	TTTCCCTNCC	AGGGGAAAAA	840
NCGNTCAAGG	TTCTCNAAAN	CGA				

1347RP

GATCATCATG	CCAGCGCCCA	TGCCGCCGGC	GGCACACCTT	CACACCCACC	CGTAACTGAC	60
AATACTCGAG	CACCTTCGTG	CGCTGGCCCC	CTGGCGGCTG	CCTGGCCCAT	TATGCAACCA	120
CCCACACGTT	TTATTCCACT	TAAAAATTAC	TTAAGCTGAC	GTTACGCCTG	TTGAAAAATT	180
TTCCGCTTAC	GGAAATTTTT	TGGGTGAGAT	ATAAAAGGGG	CTAAGTTGCA	CAGTGAAAAG	240
GTGAAGTTTT	TTGTGTTTAG	ACTTCTTTTA	TGACCTCATA	GAAGGAATTT	GGGAAATCTG	300
ACTTTCTAGC	AGCCTCTCTC	CAGTTGGAAG	TGPTTACATA	CTACTGCTAA	ACGTGCGCTA	360
AGTTAAGATT	TTCTTTTCTT	TAGTTTTAAA	CTCAGTACCT	TATTCCATAA	AGCGACACTA	420
CGATGTCTTC	TAGATTCTCC	CTCGTCTCGA	ACCTAACGAG	ATCCTTGAGC	TCTGTGGGGC	480
GGATGCAACA	GATGCGGTTT	GCATCGTTCG	AGTCGATGAC	TGTGCGGGAT	CGGTTGAACA	540
GTGCGATGCG	CGAAGAGATG	GACCCGTGAT	GACGATGTGT	TCATCATCGG	AGAGAAGTTG	600
GCGCCAGTAC	AACGGTGCCG	TTACAAGTCA	CCCAAGGCTT	GTTTGACCGT	TCCGGNAACG	660
CGGTTNGTNG	ANACCCATCA	CCGAAANGTT	TTTGCCGTCT	TGCGTGGGTN	CNCCTGAAGG	720
CNTGACCCTA	TGTCATTTCAN	TNGTTCACTC	TCCAGCAGCA	NGACANTTCT	GAATCCGCGC	780
CAAATACANN	TTCTGTGTGT	CNACCNTCAN	TGTTTCCAGC	NAAGNGCGNC	NCGNNC	

1347UP

GATCCTACAG	AACTCAACTC	TTATATCCAG	GACTCAGTCA	CGGCGTCTGC	AATCCGCAGC	60
AGCCACGCGT	GCTCCAGGCT	GGGTGGCCAT	TGGATGGGTG	GGCACGACCC	GAGTGGGCAT	120
GTATTCCCTGA	TAAAGTTAAT	GTGTATGTTT	ATGCTGGGCG	AGCTGCAGGT	ATTTGGCCGC	180
CGCGCAATCG	GGAAGCTTTT	TGCTGATTGT	CAACAGCTGC	AGGGCGCTCC	TGGTAAAAAT	240
GTGGCACGCA	TTTTGCAAGC	AAGTCCGATT	AGAGAGCTAA	TTAACTCTGA	AGCCCCCACA	300
CATAATTTAA	GACGCCTTTT	CGTTCAACTG	CCACTAGAGA	GTCTTGCGAT	TCTGGTGAGC	360
GCGGTTGTGT	TTGGCTTTTC	GTTTATTGTG	CTGGAACACC	CGATTCTATT	GCTTGTCCGT	420
CTTATTCTGA	CATGGACCTG	GTCACCTCTG	GTAACATATC	TCTCTTTCCA	TTCGTTTGCG	480
GAGCATTTGA	CCGGTTTGCT	CTTCGCATAC	CTTCTAGTTT	TGGCGTTATA	CTGGTACATA	540
TAATGATCTA	AGTAAATCTT	GCAATATTAC	ACACGAACGT	TAAACTCGCC	AGCTGGATAT	600
AGGCAAGATG	TGCAGATGCT	GTGCTTTCCG	CCTAATATGC	GGAAAGATGA	GCAGGCCAAA	660
CCCAATGCAG	AGTAGGTTCT	TCATATAGTA	ACCATCGCGC	AGAATGACAA	CTTCCGCCCG	720
CTTTCGAAGC	ACTCCCCCTC	GGAAGGAACA	TCCNATGGGC	GAATTTTGGC	CACCTTANAA	780
TTNAANAAAC	TATCATCGCC	ATAATACATC	CGANACAATT	ACCCCCANAA	TATCAAGTAT	840
CNGAAATTTT	CNTTANTTCN	CCAATACGN				

1349RP

	GATCGTTATA	TATCAGTCTC	TTGCTATAGA	TTACTATAGA	GCCCCCACT	AATGTACAAG	60
5	TTATAACTAC	TGGTAACACG	TTATATAACA	GGTAGGAAAC	GGGGCCGCCG	GGGATTTTGT	120
	CCTATGGCTT	GGCCAGGTAG	CAACTGCTAT	AAAGGCGGAC	GTTTCTCCCG	GAGCTTTTTC	180
	ATCTTGCGCA	GTTTCACTTG	CTAGTTAGTT	TAGGGCTAGG	TCGACAAACA	TATTCCACAT	240
	CGTTTTAATG	GCTGGGTGAC	CTGATAACGT	CAAGGGCGTG	GTTGAGCTGG	ACCCCTGGTT	300
	AGCTCCTTAC	GGGGACATCC	TCTCTGCGAG	ACGGTTCCTT	GCCGACAAGT	GGAGGCACGA	360
	TATCGAACAT	GCGGTGCCCG	GCGGGCGGCG	CAGTCTAGTT	GAGTTTGCGC	GCGACGCATA	420
10	CAAGAGCTAC	GGGCTGCACG	CGGACGCGCA	GAGCAAAAGC	ATAACGTACA	GGGAGTGGGC	480
	GCCCAATGCA	ACCCGGGCGT	TTCTAGTCGG	CGACTTCAAC	GGGTGGATGA	GACCTCGCAC	540
	GAGCTCCAGA	ACAAGGACGA	GTTCCGGTGT	TCACGGTGTG	TTCGGACCTG	GGCGGACGGC	600
	GAATTCATAA	TCCGCTACT	CACCCTTTAA	GTTGTGTTCN	AACTTGCCAC	CGGANCCCCA	660
	TACCCGGTTG	CCACNTTGAT	TCAAAGGNAC	CCACCCACC	AGAANCCCCA	GATTTGGGCC	720
	NCCTTACAAG	CCGTCTTGAC	CCNCCCCCT	ACATTCACCA	CAAAAGCCCC	NGACCAACTG	780
15	ATNCCTNAAA	NNACAGNCNC	TTGCTCTCAC	CCGACCCGTT	TGT		

1349UP

	GATCGCGAAA	ACTAACGCAC	CAAACCCGAC	GGAAGCCAGA	GCTCTCTTGT	AAAGTGGCAA	60
20	GATAGTGTAT	GTCTGGCCGG	ATGGCTCAGA	GGATTTCCTG	CGAGCATAGT	GGCAGCGATT	120
	GACATATGGA	GTTATCATTT	CAAAAGCAGT	GGCAATAGCA	AGACCGGTTT	TGTTCCAACC	180
	GCCGTTCTCT	TCTTTCATTA	TTGGCCACAA	GGGATTGTTC	GAGTAGAAGG	CCATCTTCAA	240
	CACAACGCTC	GCAACAAGGC	CTAGAGACCA	AGTAATGGCA	AACTGCGCGA	CACGCGCGTT	300
	GTCCTTCACA	ATGCTCTTCA	AGGTCACTGC	AAAGTTCATC	GTGCTGAGAC	CCGTGGCAAC	360
	CGCAACCGTC	ATCAACCTCC	ACTCCGGTTT	CTCAACTATG	TACGCTCCGA	TACCGATTAC	420
25	ATTAGCAAGT	AAAGGGCCGT	ACTGTTGAAT	CAACGTTGGG	AAAAATGGAA	CATAAAGCAG	480
	AACTGGGCTC	AATACGCGCG	CTATCACCCG	CCTCATAGCC	GGAGATACCC	ATGTACCAGA	540
	GCGGGAAAAA	CCATATCATA	CACAATAGGG	CAGTCAAGTT	CGTCCAGAAC	ATAAACGAGT	600
	CAAAGGTACT	GACAACAATG	TAAAACAGAC	TTGCCCTGAT	GGTGATGGGC	TCGTCCGGCA	660
	GGTAAACGAG	TTCTCGTGCT	CCTGCGTGAT	AATCACCTCC	TCCAGCATT	TCCCTCCATT	720
	CGCCGCCGCC	GAGTCCCTTG	CCGGGCTAGA	NAGCNGGTG	CTGTCTTTG	ANTGCACAAC	780
30	CCCCNCGAAG	GCCTGTGCCC	TGGGTTGCCN	AACTTTNCCT	NAGTCTCTCC	AGTTTGCTNT	840
	ACTTACCCTC	CNAAAAATTC	CAAATATCCN	GGACNCCCN			

1350RP

35	GATCTCTTGC	AATTCCTGCT	CGGTCTCTCT	GTGATCTCTA	TTGATCACCT	TTTCGAGTTT	60
	GGTCGCCTGA	GAAAGCGTCG	CAAAGTTGTT	CATAAGTTTC	TTATACCGTG	CCAGTTTCGC	120
	AGCCAGCACA	TCGTGCTGTA	TCGTGTGGAG	CGCAATTGGA	TCCCCATCGG	CGGCCATGTT	180
	ATCCTTGACC	GCGATATTGC	GTGTTGATGA	AGTCTGAACG	GCCTCGTGGC	CTGGACGTAA	240
	GGCGAAAAAG	TAAAATTATA	TAGAACAGGC	ATGAGATTGG	CTGGAAGTTC	AGGGAGCCAG	300
	GCCTCGTGCG	AAGCAGCTTA	GAGAGCCATA	GGAAGCCACA	TGCGCAGGAA	CTAGAGATGA	360
40	GACCCACCCA	AGGTGAATC	GCCCACGGCA	CAGGGGCAGT	CTTAGCAACG	TGGTAAACAT	420
	TAAAAATAAT	ACATACGTTA	CAAGCAGCCG	GCATAGCAAC	TGCCTGGAGT	CATGTTTATG	480
	AGAAAAATAG	AAAAATTATT	ATAATATTCC	TTGTGTATGA	AATAAAGCTG	CTTTGCAACA	540
	CGCGGCAGAG	ATTCAGACCT	GCCTGAAGCC	GTAAAAGGAC	GAAAAACCGA	ACGAATAGAA	600
	TTAAGATAGA	AAAGCAGCAC	TCGGCCAAGG	CGAAGCGGGG	CGCGCAAGCC	GCCCGCGCTT	660
	TCCCTCNCNC	TCAGCTGCAA	ATGCTCCTCA	GTGGATCCTG	CTCCCCCTGT	CCCCGTCTCA	720
45	CCTCCTCCAC	TCCTCGTCNT	ATCCTTTTGA	TGAAACNAGG	CTGACGCGCG	TGTTCACTCC	780
	ATCTTCNCNC	GCNCCGCTCG	ATAAATTGCT	CAGCNCCTACC	TCTTGNNNG		

1350UP

50	GATCCGCATT	AAGCGCGACG	ACGAAATCAA	TACCAAGAAG	CTCGACGAGG	AGAAGGAGCG	60
	GCGCCTCAAC	GCCATCATCA	ACGGGGGAGC	TAGTCATATA	AGCGTGATA	TAGCGCAATT	120
	AAAGGTTTAG	CGTCATCGAT	AGTTACATAA	AGTTAGAAAT	CATGCTCCGC	CACGCGCGCG	180
	TTCCGACTCG	CGAGCCACCG	CGAAAGCGCG	TCCTGCGCCG	CGGGTACGAA	GAACCGCCCG	240
	AAGAAGTGGA	GTTCTCCGCG	CCACCGGTGCG	TAGAGGTCTT	GGCTGAGTAC	GTTGTACTTG	300
55	ATCGGGTCCG	CCTTGAGAT	GGCATTTCATG	AGCCACTGTG	TCTCGTGCAA	CGAATGCGTC	360

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	GGCGCGCTGC	TGTGCGACTT	CATCATCGAC	AATTCGCGGA	ACGGCTCGAA	CCGCGTGATA	420
	AGCGCAAGCA	AGCAGAGCCC	CGCAGCGTAC	ACGTCCGTGC	TGTGCGTCGG	CTGGCCGCCG	480
	CCGATCAAGC	CCGGCGCGCA	GTA CTCAAGC	GTCGTCTGTGA	GCGGCTCCGG	CGCCGCGTCG	540
	CACACTGCCG	CCGACGTGAA	GTC CGCCAAG	AATGCTCCTG	CCCGCGCACG	AGCACGTTCTG	600
5	CGGTCTTGAT	GTCCCGGTGC	ACCACGCAGC	TCTCGCGAAG	GAACTGGAGC	GCCCCAACAA	660
	GGTCACGTGC	GTACCGCCAC	CACTGGCCCT	TGTCNCGGGC	GCGCGCCGGT	GCNCCGCTTC	720
	CANGTGGGGT	TCAACCGCTC	TACACAACGC	CGGGACCNC	TCGCCACCGC	GAANC GGCGG	780
	GTATCCCNAC	GTTTNC CGCC	GCNCCCCGN	GGAANGGACC	ACTTNCGGTC	NCGANCCNCC	840
	CCCGCCNGGT	GGCAAGNGGG	AATTNTTTAC	CNTCT			
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1351RP

	GATCATAATG	ATTTGTCTTA	ATTCTTTTCT	TAATTATTCA	TTAAATAATT	AATTAATATT	60
5	TTATTAATAA	AAAATATTTA	GAGTTATGTT	CGTTTATGAT	AAATTCATAA	ACTTTGCAGC	120
	ACGAACTGAA	GACAACTATG	TAACGCCTGT	AATTAATTAT	AAATTATTAT	AATTAAATAT	180
	TCAAAAAATG	GTAAGATTTA	TCGAGGATTA	TCGAATTAAA	TAACATGTTT	CACTGCTTAA	240
	GTCTGTAACC	GTCTATTGTT	TTGATTTTAA	TTATTGCTAA	CGTAGTCATC	AGGCGGAATA	300
	CTTTAATTTT	CATTTAATTT	ATTCTTTAAT	TAATAAAAAA	TAAATAGGTA	TTCATTTGTT	360
	ACTGCTAAAA	CTACTCGGGT	ATCGAATCCG	ATTTGCTACT	TTAGCCTTCG	TTCCCTCAATG	420
	TCAATTAATA	TATAATTTAA	ATTTTCACCT	TATAAGTCTT	ATTCATATAA	TTATTATTTC	480
10	ATCTTTACTT	GAATAATTCT	TAAATTATTT	TTATTAATTC	TAATTATTAT	TTTAAATAAT	540
	CATCTACGAA	CCCTTTAAGC	CATTACGAAT	AACGCTAACC	CCTTTGTCTT	ACCGCAGCTG	600
	CTGGCACAAAT	TTTGGTTGGA	NINGANTTAAT	TATATATCTC	TTTTAAAAAT	ANAATCTCCC	660
	TCATATTAAT	AATTTTATAT	TGANANTTAAT	TATCNNTATT	TAATAATTAT	TGAATTTATT	720
	GTTACCCANA	NAAANAANAN	ATTATTATTT	ACATCCCCNA	GTACNGANCA	CTTCACATTG	780
15	CCAAATCCCN	CGCGTTCCNA	NAAATGATAT	ATTNCNANCAC	GGATNTCTTC	TT	

1351UP

	GATCATTATA	TTATAAAATA	TAATAAAGAA	TATATTTAAA	TAATAATAAT	AATATGAAAT	60
20	ATTATATTAA	TTCTCCATTG	GAGCAATTTG	AGATTAGAGA	TTTATTAGGT	TTAACATCAC	120
	CAATAATAGA	TTTTAGTTTT	ATTAATATTA	CTAATTTTGG	TTTATATCTT	ATAATTCTTT	180
	TATTAGTAAT	TTTACTAATG	AATTTAATAA	CTAATAATTA	TAATAAATTA	GTAGGTTCTA	240
	ATTGATATTT	AAGTCAAGAA	ATAATTATG	ATACTATTAT	AAATATAGTT	AAGACACAGA	300
	TTGGTGGTAA	AGTATGAGGT	TATTTATTTT	CATTAGTTTA	TACATTTTAT	ATTCTTATTT	360
	TTACTATAAA	TTTAATTAGT	ATAATTCCTT	ATTCAATTTG	TATAACTTCA	CATGTAGTAT	420
25	TTGTAGTATC	AATAAGTATA	ATTATTTGAT	TAGGTCTAAC	TATTTATTGGT	TTTTTAACTC	480
	ATGGTTTAAA	ATTCTTTGGT	TTATTTTATC	CACTAGGTAC	ACCATTAATT	TTAGTACCAT	540
	TATTAGTATC	AATTGAATTA	TTATCATATT	TTGCTAGACT	TATTTTCATTA	GGTTTAAAGAT	600
	TATCAGCTAA	TATTATAGCT	GGTCATTTAT	TAATGTTATT	TAGGTGGTTT	AATATTTAAT	660
	TTAATAGCTA	TAAATATTTT	AACATTTTAT	TAGTTTCTTA	CCCATGAATG	CNAATTTAGT	720
	ATGGTTTGGT	ANAATTGGCC	ACCCTANTAT	CCACCTAANT	TGAGGTTTAT	TAAATCCCN	780
30	ATTTTAAAAA	TCCATTTATT	TACATNNATT	AANAATAANA	TATTTAATAA	TATCCANNAT	840
	TNAANATTTT	ATAANTTTAA	AAN				

1352RP

35	GATCCTGCAT	CGTTTCGTCTG	GCCTGCAGGT	TGATTTTGT	GCTCTCAATT	TTATCCTTTA	60
	TCAAATTCAC	AACCTGGCAA	TCCACCTCAT	GCTTTATCTT	CAACGAATGC	CTCATCGTAT	120
	TGTCTAACCT	GAGGACCATC	TCCACCTTCC	GTTTAAACAAG	CTCGACGGTA	TCCGTGTCTA	180
	ACAGGTTTAT	GGCTGGGTCTG	TCGACCCCCA	ATTGGGCATC	CCAGGCAGTT	ACGTGATCTA	240
	TGTTGTCTCT	GGTGTTCGGA	GAGAAGCGAT	ATGTAACCGA	CTGCATGTTA	AGAAGGCCGT	300
	AGGGCGAGTC	CTGCTCCCGC	ACGTCCCGCT	CGAGCAACTC	GCTGGTGTG	ATGTTGATGG	360
40	CGTCCTCACA	CAAATCGCTC	AACAGCGAAA	GCTGCTTGAA	GGGGAAGCGC	ACGTGGTGGA	420
	ACAGCGACCG	TGCGTCTCTG	CCCAGCGGGC	TCGCGCGGGC	GAACGGGTTG	TGCTCGTCTG	480
	CGGACAAGTT	CGGGCAGCTC	AGGGACGGAT	GGAGCATCAC	GGGCGCCTGC	TTGCGAGGGC	540
	CCAGGTCGCT	AGGGTCCGGC	TGCGGCAACG	CGAGACCTTG	TACTCCGCCG	CCGCGCCGGG	600
	CTGGCCGAGC	GCCCCNGTCA	GTCTTCTACA	CCNCTTGACT	CCCCCACTC	CTCCGTNGAT	660
	GACTGNCCGC	GCTCTNCATC	CGGTGCTCGC	ACACNCACAT	CTCCGAATGN	TTTCCACCAC	720
45	CACCCNGNAC	AACTTTCCAC	ACCCGGAAAC	TCNNTNGNNT	TTNGGACCCT	GTCTTTACNC	780
	TCCAATCCCN	TCTGCTGCAT	TTTTGNAAAA	CTCCCCCA	CCCCCCCC	N	

1353RP

50	GATCTAACTA	TTAATGTGTT	CCTTGAAATT	GTGCTGAAAT	ATAACGAGCT	CTTAAATGAT	60
	GTCTATCTTG	ATGACGATGT	CGTCAAGTTG	AGCCAAATGG	TACTTCAAAC	GTGTAATGAA	120
	TAAAAATATA	CAAGCGCAAA	GCCCAATAAC	CTTTACCCTA	TATATCTTGT	AATATATTAA	180
	GTAAATTGAA	CCATTTACGT	GCCATATTCT	GCGCTGGCAT	GGTATCCGTG	ATTTTATAAT	240
	ATATATTTCT	CGCAGGGGAA	GCAGAAACAC	TCAAGATCGG	CGATTGCCGA	TAAAAGAATT	300
55	GCTCCCTGAT	TGATTGTTGT	TCGAAGGAGA	TGCAGATGGA	TTGTCCAGAA	AAACCGGTTT	360

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	TAAGACTCGT	TCATCAAAC	TGTTAAACCA	TTGCCCATCG	GCTTGCAGTA	TATTGCCCAA	420
	GGTTTCGCGG	ATATTTCTTC	TGTCTAATGA	TAATCGTCCC	ACAGGCTGGT	CAGCGCCTGA	480
	TGCAGAGCGC	GAAGAGGGTC	GGTCTATCAT	AGGAGGAAAG	CTTTCTTGAT	CCGGGGAGCC	540
5	GGTCGGGCTG	TCGGCTAAAA	ATGGAGGTGC	GTCTAATGAA	GACATTAGCT	GGACAGGTCT	600
	AGGGGCTTCC	ATATCAAATT	CATCATCCGT	ATCCTCCTGT	TCTTCTACGC	ACCCTGTCCT	660
	TATGTTTAGA	TCTCCAGCAT	ACCGCAGTAT	ACCTCCCAAT	ATGATACGGT	GAGAACCCCA	720
	CTACCACCCA	GTGGCCNAAA	AGAACTTGAC	CCCCTGTNAC	CCTNCATGCA	TCCACNACCC	780
	CACCCCCCA	ATCNCNCTGT	ATGGTATGAC	CCTCAGANAN	CCNCCTCNGA	TC	
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1353UP

	GATCGGCGCA	CTCTGTGGTT	CATGTCCTGC	ACAAGTTGAC	CACTGTATAC	CAGTTTGACA	60
	TCAGAGGGCG	AAATCATCAG	TGTGTGGCCG	TACACAGAGC	AAATAAACTC	CTTTACTTCC	120
5	TGCACGGTGG	TGTCGACTGT	CACTTTCATA	GTCTTCATCG	CCAACACGGA	GTCCGAAACG	180
	AACTCGATAG	TTACACCATC	CCCGTCCTGG	CCGTGGTTGG	TACGGAACAT	AATTAAGCAA	240
	TGCGAGAATG	GGGTGGGGCG	AAAGTCAAAG	CCCAATACCT	CCTGTAGGCT	CAACCCCGCG	300
	TGTTCTGCCG	CGTCTTCGGC	GCCCAGGTAC	ACAGGGGTAC	GATCGCCCTG	CAACTTGGAA	360
	TGCAAGCATG	TCGTTGGGCA	CATGGTTCTT	GTTGGAACAC	AGGTTCTTGC	AGCTGCTGCG	420
	CTCGTACTCG	TTCACTATAT	CACATGCCAT	CGTCCGCAGC	GCCAGCACAG	ACGTCTTCAG	480
10	AGGCACACGT	TGCCTTATCA	CCGCCACCAC	TTTATCCATG	GAAAGCGTGT	TGACCTGGAA	540
	CTTGACGTTT	ACATACGCAA	ACTCACTGTC	GCCATCGTAA	GCCAGGTCTA	CAGTGCCGCC	600
	TCCGACCTGC	TCCGCACATC	CAGCTCCAGA	TGGACCAACC	CCGCGCCGCA	GCCTGCAATC	660
	TCCTCGCACA	ACATGGTTCG	ATTCGAGCGG	ACGCTGTTGG	TATTCAGACA	GTATTGCTCA	720
	GGCGGCCAAG	CGCCATGTTT	TCCCTTGATG	CATGATAAAC	AATGCCNTAC	TGCNATACCT	780
	NGCNACTGAT	AANTTGGGGG	ANGCCCGCCC	NTTACGAAG	AAGATCCANG	CTCCCNTTCA	840
15	AATAGNAANN	CNGANTGAAC	TGGCGNATNC	CNAATCT			

1354UP

	GATCGAACAC	GCCTGTGCCA	GGGAGCTTAG	GGTCGTGTGC	ATCCAATTGA	GATCGAAGCA	60
	AAAACCGACC	ATGCTTGTGT	AACCGAAAGG	CGGATGTAGC	ATGGCCCTTT	CCCAACGGTT	120
	GAGATCCTGG	TTGCGCCCTC	TTACCCTTGT	CGTAAATTCT	CGCAAAGTCA	GCCTGGTCCG	180
	TCGTCAAGCAG	CGCCTCAAGG	GCTGCGCCCA	GCTGCGACAG	AATGATCTCG	CGGTCTGCAG	240
	AAGAGTCTGA	GCTCAAGCTG	AAAATTGGGG	GGGCCTGCGA	CCGGCGCTGC	AGCAGCATTG	300
	ACGACGTCAT	CTTGCAGCAC	TTGCTCACCT	GGGCGTCTTT	CCGCAGCAGC	GTCGCAGACA	360
	GGTGCCGACC	ATTCAGAGGC	CGGAAGTTGG	ATAGCAGATA	ATGCAGGTGC	GACAGCACAC	420
25	CAGACATCGC	ACTGGTTGAC	GATACATACC	GTGCTTGCCC	TTCTTTGGCG	CGCTCCAGCA	480
	GTCGCAGGTC	CCGCGAGGGC	GGCAGCAAGT	CTGCGATGGC	CTCAAATCGA	AGTCTTCGAC	540
	CTTGATCACC	CGCTCGATGA	AGGGCTCGAA	GTTGTACACC	CCCGACCGCC	GGTCCCGGAG	600
	CGGCACCACC	GACAGCGGGC	TGGAACAGGC	AGCGTTCCAG	CCCGTGCGCC	AGCCGCGGCG	660
	GCAGCTCTGT	TGCACGTGTC	NTNCCACCCC	ATTGCTGAAC	GCCCCNTGAT	TACAAATTGT	720
	TCNCCTCCCC	GCCCCGCTTG	CCCCGGTTGC	CCCTCCCNCG	CCGCGCACCC	CCGCNCNNNT	780
30	GGATGANNGT	TCNCTGATTN	NCCAAACCCG	TTCANNTTGT	CCGGTTTNT	CANGGNCANT	840
	NCCCNNTCNT	TGTNCCNNTT	NAATGCCCN	N			

1355RP

	GATCATGGCC	AAAAAATGG	GAATAGGAAA	CTGTTTCCAG	TACTCATCAA	GGTCAGTAAA	60
	AATGTTTGCC	AGCAGTGAAG	ATTGCATCCT	TATCTTGCCA	TTTGCGGATA	GGACATTTGT	120
	TTCGATATAC	CTGTGGTGAG	AGGAAAAGAG	TGTTGCCAGT	TGGGTAAGTT	CTCGTAAAAA	180
	CAAATAAACT	TCTCTCTGG	AAGTCTTACC	GTACGCGATT	CTATTCAAAA	TCCTCTCCAA	240
	GTCTTGCCCA	TCACGCAACA	TATTATTTAA	CGACTCAATG	AAGATATTAC	CAACTTCGGT	300
	TGAAATGCAC	TGAAC TGCGT	CCAATCTCTG	TTGTATCTGA	TCAATATTTA	TTAAAGGCTT	360
	TGCAATCCAG	TTCTTCAAGT	TCCTTAACCC	GTAGTTTGT	CTAGTATGAT	CTAATACCCA	420
	TAACAGGGAG	CTTTACTGTC	TCCTATCTGT	ACTGTTCTCA	AAAATATCTA	AGCTTTCAAT	480
	AGCGCTAAGA	AGGAAGAATC	ATGTGCGTCT	tCGAGCAGAA	TGGTTTAAAG	TTTTCTTTGA	540
	AGAAGAGTAA	ACnnncATTT	TTGAAGTTTG	TTAGGTAGCC	ATGCACCAGC	ATGAGCGCTG	600
	TTTGCAAGAG	AACGTGCCCC	TTAAAGGCTG	GGTGCGGCTC	ACTGAAGATT	TCTTCATACA	660
	ACCCGACGAG	CTCGATCCTA	TTTAGAGTGA	TATCGGAATC	TGAAGTATGA	AACACCTTTT	720
	CGATTTCTGA	GCCAAGGCCA	TCTCCGACCA	CAACTTCACT	CGGGTTTGTG	TATTTTATTC	780
45	GCGTCTCCAA	AGCCTCCGTC	AGAAAAACGCT	CCTCTTTGAA	GTCATCGAAG	ATAACTTCAC	840
	CGCTGTTGAG	ATTAACACTA	ACCAGGAAGT	ATCGCGTGTA	TGAAGGTTGT	CGCTTGACCA	900
	CAAGACCCCA	CACAGAAGCG	CTATCACCCA	GGACCCGACG	ATCTTTGGTT	CGAACGTCCT	960
	ATTGATGCCA	TAGGTAGCCC	TCGTGAATAT	ATTGGGTACT	TCCCTCGAGA	AAACAGAGCT	1020
	TGAgGTCCCA	CTGTCTTTT	TCACTGCGGA	TGCTCTGTtC	TGtTcCACGA	CCCCACTTT	1080
50	CAGATTGtGG	tGCATcAAGC	GCTGCAAGtG	GACTTcGAGA	CgGGTGTCTg	GGaATGGTGC	1140
	AgTACGCAAA	CTTcTTGtGC	tTGtGA				

	GATCATGCTA	TCAAGTGCAG	AGAACACGGA	TAGAGCCTAC	TCTGCAGGTT	CGGCCTCGCT	60
	GAGCGCGGCG	CAGAAGTCGA	AGAAGCCGCC	AAATACCGCC	TTCCGGCAGC	AGAGGCTGAA	120
5	GGCCTGGCAG	CCCATCCTGT	CGCCGCAGAG	CATCCTCCCA	CTGCTAATAT	TGCTGAGCGG	180
	GGCGTTTGCG	CCAATCGGGA	TTGCGCTGAT	CATCAGTGCA	AACAACGTGC	AGAACCCTGGT	240
	GATCGACTAC	AGCCAGTGCG	GCAAGCACGC	CACGTCCGAA	TACACGCCCA	TCCCCGAGAA	300
	CCTGGTGAGC	TACCACTTCC	GGACGTCCAT	GTCCGAACAG	CCTAAGTGGC	GGCTGCATTC	360
	CAAGAATGAG	TGCGAGCTAG	AATTTGAGAT	CCCCAACGAC	ATATCGAGCT	CGGTGTACAT	420
	ATACTACAAG	CTGACGAACT	TCTACCAGAA	CCACCGCAAG	TACGTGCAGT	CCTTCGACCT	480
	CGACCAGCTT	AAGGGCAAGG	CTGTTGCACC	AGACAAGCTG	TCCGACACGT	GCCACCCGCT	540
10	CTCGACTAAG	GACGGCAAGG	CTGTCTATCC	CTGCGGCCTG	ATCGCCAACT	CAATGTTCAA	600
	CGACACCTTC	ACGCCGGTCC	TCCGGGGTGT	CCAACGGCGT	CCCCCGACTA	CAACTCAGCC	660
	AACAAGGAAC	ATCGCCTGGC	ACACNGACCG	CAACAGGTNN	CAAGAAGAAC	AAGCTACAAC	720
	CCGCCAGANA	TNGTGCCGCC	CCCCGCCTTG	GCACGAACGT	TTCCCCCNAA	TGGNTANNAC	780
	AANCCAACCT	GCCTGACTNN	CTACTTGGGA	GAATTTCCCG	TNTTGGANTG	NNCCCTGCAG	840
	NCTGCCNCCT	NNTAAANCTN	CNTNCAAAAA	AAAAGCAACN	CCCTCCC		

pAG1355up

20	1	GATCATGCTA	TCAAGTGCAG	AGAACACGGA	TAGAGCCTAC	TCTGCAGGTT
	51	CGGCCTCGCT	GAGCGCGGCG	CAGAAGTCGA	AGAAGCCGCC	AAATACCGCC
	101	TTCCGGCAGC	AGAGGCTGAA	GGCCTGGCAG	CCCATCCTGT	CGCCGCAGAG
	151	CATCCTCCCA	CTGCTAATAT	TGCTGAGCGG	GGCGTTTGCG	CCAATCGGGA
25	201	TTGCGCTGAT	CATCAGTGCA	AACAACGTGC	AGAACCCTGGT	GATCGACTAC
	251	AGCCAGTGCG	GCAAGCACGC	CACGTCCGAA	TACACGCCCA	TCCCCGAGAA
	301	CCTGGTGAGC	TACCACTTCC	GGACGTCCAT	GTCCGAACAG	CCTAAGTGGC
	351	GGCTGCATTC	CAAGAATGAG	TGCGAGCTAG	AATTTGAGAT	CCCCAACGAC
30	401	ATATCGAGCT	CGGTGTACAT	ATACTACAAG	CTGACGAACT	TCTACCAGAA
	451	CCACCGCAAG	TACGTGCAGT	CCTTCGACCT	CGACCAGCTT	AAGGGCAAGG
	501	CTGTTGCACC	AGACAAGCTG	TCCGACACGT	GCCACCCGCT	CTCGACTAAG
	551	GACGGCAAGG	CTGTCTATCC	CTGCGGCCTG	ATCGCCAACT	CAATGTTCAA
35	601	CGACACCTTC	ACGCCGGTCC	TCCGGGGTGT	CCAACGGCGT	CCCCCGACTA
	651	CAACTCAGCC	AACAAGGAAC	ATCGCCTGGC	ACACNGACCG	CAACAGGTNN
	701	CAAGAAGAAC	AAGCTACAAC	CCGCCAGANA	TNGTGCCGCC	CCCCGCCTTG
	751	GCACGAACGT	TTCCCCCNAA	TGGNTANNAC	AANCCAACCT	GCCTGACTNN
40	801	CTACTTGGGA	GAATTTCCCG	TNTTGGANTG	NNCCCTGCAG	NCTGCCNCCT
	851	NNTAAANCTN	CNTNCAAAAA	AAAAGCAACN	CCCTCCCN	

1356RP

	GATCTACATA	TGCATCAAAA	CATGTGCGCTT	CATGCGCATC	AGTAGTTATG	TTTGCGCTGA	60
	GAGGCGAGCC	ATTTCCAGCT	TGTCTGCACA	ACTCCATATC	ATTTGCATCA	TCAACCTCAT	120
5	TATCGCTATC	ACCATCCTTA	GTCGAGTATG	GAAAGGAGGG	TGACACAGCA	AGGCCAGAGG	180
	TATCAGTTGA	AGACATATCT	GTGCTCATGC	GGTGGGCCGC	ATCATAGTCC	GATGACTTCG	240
	TGGAGGATTT	AAAGTCATTC	TGCGGAGGAT	TCTGTGGCTC	TACTGACCTT	GCAGATTCGT	300
	TTTCACTTTC	GTACAGAATG	GACTCATCTT	CGAACTTGAG	ATCTATCCGT	TTGTGATCAT	360
	ACGCGACTCT	TTTTTCAACC	TTCTTTGTCTG	TCATTGGCAC	GGAGTTTATC	AAGCTAGAGC	420
	CCAAGGAATG	CTGCTTATCA	AAGTTCTTCT	TAGCCATGGG	CATTTTCGTAT	CTATCATCTA	480
10	TCCCTTCGTT	CGAACCATAC	TTACCTGGT	AGCCATACTT	TGTATTATAA	TAAGAGTTGC	540
	GATAATGCTT	CGTACCAGAA	CTACCGGCAC	TGCTAGACTC	CAATATGGCT	TGGATGAGGA	600
	CTGCGCACGC	GAAGTTTACT	GCCATCCATA	TCAATTGGG	CNTGGCTGCC	ACATTGCGAA	660
	ANANTAAGAA	GAAGTACGAC	TAATCCTCCA	CTNGCTACCC	CGTCCNTAGC	AGCGAACCGG	720
	CTGCTGTCTN	NCNCATCCAC	CCCCGTGCTT	GCTTAGCTCC	TACNCCCNTG	TGGTTCCATA	780
	ACCCACCCCG	TGTCACCCCA	TCCCCTGANC	ATTNTGAGAG	ANN		

1356UP

	GATCTGAACC	ATATTACCAA	AACCAAAACAA	AGAATTCCGG	CCCAAGCGAC	CCGTCCGCGC	60
	GTAAAGCCCT	ATAACCAGCT	TACGCGTCTG	TGGGCGCCAT	AGAAATTTGC	ATTTTCAACG	120
20	GAACCAACAC	GTCAATCCCA	AACACACTT	ATCATGCCCT	AAAAGGGATT	ATCTTTTCTA	180
	ACGAGGAGGC	CCGCCTGCGC	AGTAGGAAGC	GGATCTTAGC	GGCGTCCGGC	CGGCACATTC	240
	GGCCGTGGGA	CTGCAATATC	CTACTTCTGC	AGCGGAAGAT	AGCGCACGAA	AATCTGCGGC	300
	GGAGCAAGCT	CAGAATTATA	TGTAGGACCA	AACATTGTCA	GCAACGCGTG	CGCCGAGTTC	360
	TGTTATCGAG	TAGGGGGATT	TCCTGCGAAT	GCCGTTCCTT	TTTATCGTTT	CTTTTGTGAG	420
25	GGGCATCTGC	AGAAGCGATG	AGGTCCAAAG	CATCTTGTGTG	CATCGATCAC	CGAGCCACA	480
	GGGCAGGTAG	AGTAAAGCCT	AGTCACCATG	GTGGTAGTTG	ATAATAGCCG	CGGAGGCGCA	540
	TTCCGATACT	ACGCGGGTAA	GCTGCGAAAC	AAGGTAGCGA	CGCGGCGCGG	GCTTTTAGGC	600
	GACTACGACT	ACAAGTACCT	GTTACGCGCG	CAGATATTCA	AGCGCCAGAG	AAGCTTCAGC	660
	CATTTTCTCG	ATCNATGCAA	AATCCCCGGT	GGTGTCTGGG	TGGCNTTTGG	GGNTNCACNC	720
	CCCNNGCAAN	NCTGGCGGNT	TNNTTNCNCC	NCCAATNNTG	AATACCGGNG	GNGGGAANTT	780
30	TGAAAGNNAA	NCCNACATNC	TTATTGGGCT	TNCCNGNTGT	NGAACGGGGC	TTCNTNNAAG	840
	GNGNAATANN	CCCTTGNGAA	TCCTTAANAA	AAT			

1357RP

35	GATCCCAGCG	AGGACATCGA	AGAGGGACTA	CTGTACCGCA	TGGACAAGCT	TCGCTGCCGA	60
	TTGATGAGCG	AAGACCGAGA	TGAAATGACA	GATGGCGGGA	CCGTCCGGAG	CGTGATCTGG	120
	AAGGAAATGT	TTTCTGCCGT	CGGTATGGTG	TCAGGCTCA	TGGTAGTACC	TGCATGATTC	180
	TGTCTTTCCG	TGATCGGCTT	CATGGTGGGC	GTTAGCGACT	TATAATAGTC	GGTGCCGGTT	240
	GCTGGCGCAA	GCAGCTGGCA	TGCAGTGTG	TCCGACAAAT	AGGAGTACCG	GTTGGTGTTC	300
	TTATTTCGTGG	TGTTGTCAGA	AATGTTTGCA	AAGGAATAGA	AACCATTTTC	CATGGTGGTC	360
40	GAGGGGACTT	GCGAGTTCTG	TGCGGGTGTG	TGCGCGACAT	GACATTTTCAT	TTCTTGTTC	420
	GCGCCCGCTT	CCGCAGGAAA	ATGCGGCCGC	TGTGCGGCA	TGTCTCTTTC	CTGCTTGTGT	480
	CCGTTCTGTG	CCATCTCCCC	TAGGGGCTTG	CCCTGAAGAG	TTTCAAAGCT	TTTGAACCTC	540
	AAGGAGGGCG	ACGCCGGGCC	CACGAAACGA	TATCGCTTTA	CTCCTCCTCA	GCTTCCCGAT	600
	AGGCATCTCN	ATGCCATTTT	ATTAATATAT	TTCCCCCGTC	CGAACCCCAA	ATGTATGTCT	660
	CCCGTTTGGC	AAGGGATTCC	GACTTATATA	TTATTTGATG	TCCACCACAG	GTTTCCNAAA	720
45	TATTATACAT	CNATTGCCNA	ACCTCCCCNT	TATNCATCAT	CCGACCNCNC	CNCATTGTGA	780
	CNCACTAACN	TGCACATNNC	CCNATNTNNT	AACCCATCAA	CNCACCTTNC	CTGCCCATCT	840

1357UP

50	GATCCTCGCG	TTCCCATGCA	ATTGTGTTGC	TTCGGTTGAC	CCGATATGAC	CTCAAAACCG	60
	GGTCCGAAGC	CACCAGCACC	TTGTCTGCTAT	GTGACTTAGC	CGGCTCAGAG	AGAGCAGTGA	120
	CACAGATAGT	ACGCCGGAAG	GAGGGTGCCT	TCAATCAACA	GTCAATTGCTA	GCGCTTGGA	180
	CGGTCAATAGC	CAAACTTAGC	ATGTTGGGAA	CCAGGCCCAA	TGGCCTGCAG	CCGTCTCCCG	240
55	CAGCCGGCCA	CATACCGTAC	CGTGACTCAA	AGTTGACCCG	CATCCTTCAG	CCAGCATTTGA	300

	CAGGAGACAG	TATCATTACG	ACCATCTGCA	CCATCGATTG	GAAAGCCGAG	TCCTCAACCG	360
	AAACGACCAA	TACCGTCCGC	TTCGGGTCTC	GCGCCAAGAA	TATCGCCCTC	AACGTGCGCA	420
	AGAATGAAAT	GGACTCGCAC	GCCGAGAAAG	ACACCATCAT	CCAGAACTTG	CGCAAGCAGC	480
5	TTGACGAGCA	GCACGAGACC	ATTGTGATGC	TCCGGCGCAG	TGCTGCAGCG	CCTAGCGGCA	540
	ACGGCTCGAC	CAGCCCGCTG	GACAGCCCTG	GCGTCGGCGG	CACCCAGCTT	TGAGCGAGCG	600
	CACGCCACAA	CATTGGAAAA	AAGGNTTGCT	AAAGGTNGAA	AACAGCATCC	TCCAAGAAGA	660
	ANCTCCGAGC	CATTGCGAAA	AAGCNTCTCG	AAANNAGGAAA	TGATGTCCCTC	CGAAGAACCG	720
	CANTTTCNCA	NATTCTTNAA	ATCTCCCCCT	TGGAAATCCC	CCCGTCCCCC	CAAAACCAGG	780
	NTNCAGGGGT	TGATTTCCNC	NGCCCCATTA	CCGNNTTACT	TTCAAAAANTA	AATNCACNCC	840
10	CCCAGGNCCN	NGAAAAATNCN	TTCCCCCCCN	TNTGGNGTTC	ACCGCCNA		
15							
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1359RP

	GATCCATGTT	TATTCACCCC	GCTCACTCGC	GTAAACGATG	CTTTACGTTG	CTCACATCGC	60
	CGCCACCATT	AACAGCGTAT	CACATTTTAC	GTTTCCGTGC	AGCAAAAAGT	CGGTCCGAAC	120
5	ATAATGCTCC	AATACCACGA	TAGGTCCGCG	CAAGCGCCTA	ACACGTGCCA	TCCTGCTCGC	180
	CTCCCCACGG	GCCGCTCGCG	CTGTGCTGGA	TGAAACTCCC	CTCCAGCGTA	TGAGCGGACG	240
	GGCATTCGCC	CTGCCATTAC	TGCACGCCCC	ACCGACAGGT	TTCCCATGTC	AGCATCGACG	300
	GCAAACCCGC	AGAAATCGAT	AAGTAGCAGG	ACACGCGTCA	GAAAGACCAG	TGTGGTATCA	360
	TGGCGCACGA	GGAGCTAGGC	AACCTCGCTT	TTCCGCAACC	ATGCCCCGCC	GCAGGTTCGA	420
	ACGCGGGAGC	GCCTCACCAA	GCCGGGATTG	CTAATGTCCC	TTCCGGCCAA	AGGCCGTCAC	480
10	AGCTAAAAGA	GAGGCGCCCA	CGAAGGCATA	TAGCTGGCAG	GAAACGATAC	GATTACGCGC	540
	ACTCGCAGCG	TAAGGAACAG	GAGCATCACA	TCGAACAGTC	GCCTGTGGTN	TCCATCCCTG	600
	AAGGTNGACA	CTAACCTGAA	AAGCGGCGGT	TGGCACTAAN	TACAAACNTT	ACCACAGTAG	660
	ATGCCNAATA	CTGCTGACAA	ACGAACTGGG	ATTNCTNACC	GGTGCTNGG	ANANAAATCT	720
	NCCAAGAACTN	TTNAACTNCAA	TTGGCCACTA	CCCCCTTTGA	TCCCTCTTNN	ATCNACGCGT	780
	TTGGGANCCG	GNGNGCAAAG	CCCTGATGNN	ATCCCTGACN	AANTTGGACT	NNT	

15

1359UP

	GATCGGTGTA	GTACACGGTT	TCCGGCGCCG	CTTCTGGCAG	AGCAGCTCCG	ATCACCGCGG	60
20	TACCCAGAA	CTGCCCGGGC	GCGTCGCAAC	ACTAGTGCTT	GCTGCTGATG	CCCGCTTCTT	120
	AGTCGTTGCC	TATTTTATTTC	CTGCCGCGCA	TGTTGCCGCT	GTCACGGCGT	ATCTCGATGT	180
	GCGCGAGCAG	GACGGCTATC	TTCCGCAGAG	CGTTCCCTGTG	CATCTGGTGG	CACCACCGCA	240
	ACCGCTGCAC	GAGCTGCGTG	ATGCGCTGGA	CGCCCTGCCG	TGTGATTCCG	TTTCTGGACT	300
	ACCCGTCGTA	CAATCCGTCA	TATACATCGG	CATCCCCGAT	GCCGCCACCT	TTGTTGGTCC	360
	AGAAGAACTG	CAGCGCACTG	CTGCCGTCAT	CGCGCACAA	CACGGGCCCCA	GTGGGCCCCA	420
25	CTACGAGTAT	CTGAAGCTGC	TCCACAGCGC	GCTGCACTCA	ATAGCCGAAA	CGTTTGGCGC	480
	CCGCTTGTCG	GAGCTGGAGG	ACCATTTATCT	GGACGAGCTG	CTCGAAGCGG	TCGACCGTCT	540
	ACGGGCCCCAG	GCCTGTGCCG	CGGTAGGTGC	CTGATCTTCT	GCTAAACCCA	CGCCGAAACA	600
	AAGATAGCAC	CCGCCGCTCC	GGGTAGCGGC	CGGCCGTCGT	GACCAGTTGC	TAGCGTTTAC	660
	TTGCATACCC	GTATCTGCTT	TAACCGTTTG	GAAGGTTTAN	CATCATTAGT	TNNTTTGTGC	720
	GCTTTGCTGC	CCCTGCTTTG	GCAAGGGGCN	CCTATTTTAA	NTTACCNCCC	GNTTAAACGNC	780
30	NCCTGAACAA	AAATGAAATC	NTTTNGANAN	TCCCCNATTT	TNAGGATATC	CCCNNGTTGA	840
	ATTCGANAAA	CTGATTTGCC	NTTTTNTNT	A			

1360RP

35	GATCCTTCTC	CTCCGCATTG	ACAGAATATA	TCCTCGCGGT	CATATCCTTC	GCGGTGCAAA	60
	TAATGAACCG	TGAGTCCCGC	GACCATGTGA	GCGATGTGAT	GTCGGCGAAA	TGCCCCGCGT	120
	GGACCCGGTA	GCGCACAAAA	GGCGCAAACT	GCCGCTCAGC	ACTGACCCCT	GGAGTCCGCC	180
	AAATCTGAAG	AAACCTCCCA	CATGCCAGAG	CAAAGAGCTT	ACCGTCTGTC	GAAAACTTCA	240
	CGTCGTTTAC	TTTGTCTTTA	AAGTTGAAAT	GATGTATCAC	ATTCTCTGTC	TTTATATTCA	300
	CAAGGATTGC	CCGACCGTCC	ACGTCAACCG	AAAGAAGCAG	TGTACCCTGG	GCATTGACGT	360
40	CGATCCTCCG	CTATATTCCCT	TCTATGCTCA	TATTCAAAGG	TAAACGACTT	GTTACCAATC	420
	AGGTCAAACA	CCGATACCCCT	GTGCCCAACG	GGCGAGAATA	GCAGCGTTCC	ATCCTCCGAA	480
	AACACCACAT	TTCCCTGTCT	GTATACAGTG	CCTAGCAGAT	TGGAAAACTT	GAAATCAGAC	540
	TTATCTGTA	TCCAAATGCC	TGCCCTTGCTT	GATCTTTTAC	TGGTGTAGCT	CATCTCATCT	600
	CGAATTAAAT	TTTCCGTACC	ACCCAAAAAA	ACANATCCTC	CANCTGCATC	TCAAGATTAT	660
45	ATATATATGT	TCGAAAATTG	AANATCCACT	CNTCTAAATG	GTACACNGTC	ATATGAATGT	720
	GTTTNTTTGC	TCCANTATCC	CNACCAATTAC	CCACTCCAGA	ATGGGAATAT	ATGCCAGGAT	780
	NTCCGCCACT	TCACCCCTGTT	TTGACANATT	TCTTGAGNTG	CTGACAGCCG	AGAAAAAAGG	840
	TCAAGGTTAT						

1360UP

50	GATCGATGCA	AACCAGGACA	ACTACTTAGA	AGAGTGCTTG	AAAAATTAAA	GTGTATTGAG	60
	TGAATTTGAA	AATGACGTAC	CGGATAAGAC	AGATATCAGA	GGAGTTCTCA	ATCCGGTTGC	120
	AATGTGTTGGT	TCCCGTGAAC	ATGTGTTCTC	TGAAAAAACC	GGTGTATTGG	GAGATCTCGC	180
	GGCTGGAAAG	GAGCAAGTAT	TCGGAACATT	CTTTGCACGT	ACCCTTTTCGT	ATATTGGTGC	240
55	AAAGTTACAC	TATGGCCATC	CTGATTTTGT	TAATGCTATA	TTTGTCACTA	CCAGAGGTGG	300

	TGTATCGAAA	GCTCAAAAGG	GCTTACACTT	AAGCGAAGAC	CTTTTTGTTG	GGATGAGTTC	360
	CATATTACGT	GGGGGTAGGA	TTAAGCATTG	CGAGTACACT	CAATGCGGGA	AAGGCCGTGA	420
	TTTAGGATTT	GGGTCCATTT	TGAACCTCGC	TACTAAGATT	AGTGCGGGTA	TGGGGGAGCA	480
5	AATACTCTCA	AGGGAATACT	TTTACTTGTG	TTCAAATCTC	CCACTCGACC	GTTTCTAGTT	540
	TCTACTATGC	ACATCCGGGA	TACTACTTGA	ATATGTTTCC	AATATCCCTT	CTAACCCCTT	600
	AATTANGNAA	TTTANTCCCG	NATTAATGGC	GGTCCTGGTC	AANCCNACCA	AAAATNTNNA	660
	NATTCTNTTA	ACCCCCAAAN	CTGCAAAATT	TATTGTTGCC	ATTNAACCCN	TAACCAAGGT	720
	NCCCCNTCNC	GNTTNANCNA	TCCNTNTCCC	NCCGGTNCCC	TTCCCAGTTT	TGNAAGAAAA	780
	ATTTAAAAAC	CNACNCCGGG	TTNCCCCGAA	AATGAAACTN	NTANAAGNGC	CCCCTTTCAA	840
10	ATTTTTTTTTT	C					
15							
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1362RP

	GATCATAAGC	TATTGGGTAC	CCGTTGTAGC	CTAGCCTTAA	AATAATCGAC	ATTTTGGAAAT	60
	TTAGTTATTG	CGTGGAAATA	AGGTATATAT	ATTGCTTCCA	AGTTTAAATGT	CGCTTTTAAAC	120
5	TCACTAAAAT	ATGGATGTAA	ATTGTCTCAA	TTGGACTTTC	ATGTTCTATC	TATACACTAA	180
	CTGCGATGCG	ACTCATTTGTG	CTTCAGTATT	CAAAACATGT	TTTATATATG	TAATATGCGG	240
	ACGTAGAAGG	CAACTAAATA	TGAGAGGCAA	CTTAGTCGCT	GTCGCTGTCTG	CTGTTTGAAT	300
	CGCTGGAATC	TTTTTCATAC	ATGATCTCGT	CGCCATTATC	TTCTTTTAGA	ACGCTAAGTT	360
	CCAAGTCCTT	ATGAGATTCC	TTGTTCTCTT	GAGAGACCTC	GTCATCAAAG	ATGATCTTGG	420
	TGTTGGAAAC	GACAGGCAGG	TTTTCTGCTT	GCGACCTGTG	ATAGCCTTCA	CTTAGCAGTG	480
10	ACCCCTCGAG	GGACACCATT	CTGCCCGCAG	TGTAGACATT	TTTAAACAGTA	AATTTGAGTT	540
	TTCCGTCCAG	CTGCTTACCG	TTGCCGTCAC	CCAGTGGCCT	AGAGACCGGG	CCTTGCGCAT	600
	CCCTGTGGAG	AATCGTTTCG	CTGCTCCCGT	TGGTACTCTC	TTCTGTTATGA	ATAAAGTCCA	660
	ACCATCCGGA	ATGTTATTTT	CTAATGAAGC	GTTTGAACCT	CGTGATCCAN	CAACCATNTT	720
	GTTGAGGTGA	CNNTTGAAT	CCNCCCNCGA	CNATCCCNAT	TTTNGNGACA	NCCNCAATTT	780
15	CCCNCGCCCN	NTTAANCCAG	GNTATCTGNT	CCANTGANTA	CATCTCNCCTT	T	

1362UP

	GATCATAGCT	GCAGGCTGCC	AAGCAGACAT	GCTGACATCA	TACAGCCAAG	AGAGCAGCTA	60
	CGCTGTCAAC	GAGCTGGAAC	AGAGGCTAAA	CGAGTTTTCGC	ACTAAATGTA	GAAAAAATGC	120
20	AAGCCACTTT	CAGGCACTAC	TTTCACTGGT	AACTGAGATA	GACCATCCCG	ACAGCAGCCG	180
	GCTAAGTCAC	CGTACAGTAG	TCTTGACATA	CATGGAATAT	CGCTAAGGAA	GGAGGTGTAA	240
	TAGGACACAA	AATCATGAGA	AGAGTATTGG	CTTGTGCACG	ATGCCGTGGG	CACAAGATCA	300
	AATGCGTGCA	CAACAACGAG	CCACCCTGCT	CTTACTGCCA	GCACAAAGGC	ATAGCGGAGA	360
	AATGCGTGTT	ATCATTTCCTG	CCCAAGAAGA	GGCGCAAGAA	GCCGGAACCTA	TACTTAGAAG	420
25	GGGTGCGCAT	GGCGCTGGGC	GGGTATCCGG	TGCAGCAGTT	GGAAACTGCA	GATCTGCACG	480
	AGCATAAAGC	CAGAGCGGAC	GGCTCTGATG	AAAGCCAAGC	TCCTGTGCAT	GCGCAGGACT	540
	ATACGATCGG	GAGCAAGCTG	CGCAGATGTA	CGAGCTGGCC	AGCAGATGTA	CTACGGCTGC	600
	CCAGGCGTAC	TCGACGGTTA	TGTCGAGTAG	TGCGAAGGTT	CCCAGGCGGG	TTGATTCTCC	660
	CGCCAATTGC	CACCCGGATT	CTAAACCGAA	ANAATGCAAC	NCATGGAACC	NGCCNTACTT	720
	TNTTGGACTG	TCCCCAGTGC	CCNATGCAIN	GTGCACTTGC	ATNGAGANNT	TGTCATCCTT	780
30	CCCCACTGCG	NTGTTTANAT	GANACCNCCC	AAGAATACCC	CCTGACCGTC	TTTGGTTCTT	840
	TTTGCCCCCC	NCCT					

1363RP

	GATCATTATC	AGCATTAATC	TTCAACTCCG	CATTGCCTCT	TAAACCAATA	ACAAAACCGG	60
	CAGATTTGCC	TCCAATTGCG	TAAGGATCCT	TTAACCCCTT	GAGGGATACT	TCAAAAAGCC	120
	CTTCACTAGG	CCAGCGAATA	TTAATCTTGG	CATGGAACAT	ATTCCCTAAT	TTATCCCAGA	180
	AGCCTATTTT	CTTGGATGGA	TCAACTGGAG	GTTTCGAAAA	ATTGTCTAAA	CAATTCATGG	240
	CCTGTTGTAT	AGCAGCTTCA	TAAGAGCCAC	CCCATGTCAC	CATCGTGATG	TCCTTTCGAGT	300
	GTATATCCAT	TGTTACCTGA	CTGTAAATTT	TAATAGGCGT	TAAAGACCGG	CGGAAGCGCA	360
40	ACGAATAATA	TAGGTCTATC	TCAGAAGAAG	TAACGGAAGG	AACAAGCGGC	ACAAATATCG	420
	TTCTAGCTC	CTTGGTTGAT	TGAATCATAT	CCTCCAGTAA	TAAAGAGGTC	ACCATACAAA	480
	TGTATAGCCG	GAAAAGAACC	TTGTTGGGAA	GGCATAGCTT	CGGCATATGG	ACTAACGGTA	540
	GTNNGGTTAA	CCTTNAANA	GCCCCCTTAA	TTACCCANC	TTGGCTTCCA	ATNTAAAAGG	600
	GAAGCCNCCA	NTTATTCTGG	GTTANTTTTG	GAACCCCNNT	TNCCCNCAAN	TTTAATNAAT	660
	TCNCCNNTTT	ACCCCTCCCA	CATNANGGCT	TAAANTNNCA	TGTTTTTACCC	CCCCNGCCAA	720
45	GANNCTCNCC	ATTTTGGAAA	TGTTANANTC	CANACCCCTT	TTNCATNTTN	NAGGANCTTC	780
	AACTGTCCNT	TTNCCCCAAA	AANTTAATCC	CCCNAAAAAT	TCCTTTCCTCC	TGGGGNTTTT	840
	CCCCCTTAC	CNT					

1363UP

	GATCGAGGAT	ATTTCCGTAC	GCTGGATGTC	GCTCGATGTC	AAGTACATGG	GTGATCGGTT	60
	GGCCTTTTCA	GTGTCGCTTC	AAAATATCAA	GCACAATAAG	GTCTGTCTGC	TGAAGTCTGG	120
	TGCGCTCGAG	GTTCTCGGCT	GTTTCACAAA	AGACAGTCCC	TTTGGACTAA	CATGTGTTGA	180
	ACTGAGTGTC	AAGTTTCTTC	AACTCACAGT	CCCTGTGAGT	AACCTACTAG	CACATTTTAC	240
55	CTTGGGCAAA	GAAGAAGATG	AGGACGTCGA	AGGCTTTGCT	CGTAATATTT	TCGATGGCAT	300

	GACCGAAGAT	CCACAACCTGA	ATGCACAGAA	TTGTGTGGAG	ATGATGAGAT	CAAGAGTTAC	360
	CACGTTGCAT	AGCTACTTTT	CCCATCTAAC	TAAGGTTGAT	TTTTTTGTTG	ATAAGGTTAA	420
	CCTGGCAGAT	ATACCACCCA	GCTTATTGCC	TGAGTTGTCA	TCTGCCTGTG	AGCCTTTGAA	480
5	ATACGAAGTT	GCGCTTTTCTA	GTTTTACTTT	TCAAGTCACC	CGTTTTAGCA	CCCGAACAGC	540
	CAGGTATAGT	ATCCTTTTCA	AAAGTCTGAT	AGACCGTAGG	GTCCGTATCA	CATTGTCATC	600
	GTTGCAGTGC	GCTCTCAGTT	AATGCCCTA	AAATCCCCCT	GAAAAGGCTC	CTGAATACAT	660
	CCGGTTTTTTG	AAGTTCCCAN	TTATATCCAT	ATGGTGANAC	TATACTTTTC	CTGAAAATTT	720
	GACTGGTCCA	CGCTGTTTCT	GANACAAAGT	CAATGGTGGG	CAGTTTCTCC	CCTACCNATA	780
	NATTGAAATG	AAACCCCCAN	CTTGAACCCC	GTTNGCAATA	CTGTANGACT	ATTTNTTCCN	840
10	CANAACCCCN	CCACGNAN					
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1364RP

	GATCAGATCG	ACGTCACGTT	CCGTGCGCTG	GGCACACCTA	CGGACAAGGA	CTGGCCTGAG	60
	GTCTCGTCCT	TCAGCGCGTA	CAACAAGATC	CAGGTATACC	CGCCTCCGTC	GCGCAGCGAG	120
5	CTGCGCAGCC	GCTTCATCGC	TGCAACTGAG	AATGCCCTCG	ACCTGATGTG	CGGTATGCTG	180
	ACGATGGACC	CGCACAAACG	GTGGGACACG	ACTCGTTGCC	TGCTCAGTCA	GTATTTTGTG	240
	GAGCTTCCGG	AGGCGACACC	TCCTACGGAA	CTTCCAAAAC	TAAATAAGTA	ATGACTATGA	300
	TAACCTAGAT	GGTATACTCG	GACGTTTGT	GTTTGTGCTT	TGAGGCGATG	ACATTGGCTT	360
	TTATGGTATC	GCAGACGTTG	CCTGAAAAAG	ATTCAACGTC	TCGGTAACAG	ATTTGCGCAG	420
	ACTACTTGTT	GAAAGAACAA	AGACCAGAGC	GCTGGGATGC	TCACCCCAAT	GACGAACCCA	480
10	CTCCGCTTA	TTGGCGCTGG	CTGCAGGTTT	CTTAGCACCA	ACAATAGGCC	GCCACTGCAC	540
	AAGATCTTTC	CCTCCAAGAA	GCTGGTGAAC	AGGATGCTGT	TCCGACCTTG	ATAGCCGACT	600
	GACCTTCCGG	AAATTACTTG	CCTGTATATC	GAGCAGTTGT	ACACCCAATT	AGACAGTTAT	660
	TACGGGCAAT	TTGTTATACC	CCNCGNCTTG	ANGGCNCCGA	CNTTNTATCC	TGAAAAGNTG	720
	CTNGAAAAAA	TCCCCGCAAA	NGAAAAANNCC	ATCGCCATCT	ANTTGNCTNG	AAACAACCTGC	780
	TTTACTGCTG	CCCAATNGAN	ACCAAAATCN	CGGCCGTACC	TTGACCCNTT	CACCCGCTNC	840
15	CT						

1364UP

	GATCTAGTGC	TTCACAAGCT	AGAAAGCTCCA	ACCATGAAAG	AGCGATCGAT	CCTGAGAAACA	60
20	CTTTTTCTGT	GGAGGCTTAT	CAATGCTCTT	TCTATCCGCA	GCCTTCTCCA	GGCAGATGAA	120
	TACTGGCAGT	CGCTGGAGCC	TGCGCATGTT	AAGGCGTTTG	GATATGGTGG	GCTGACTTGG	180
	GAGTGGCAGC	ATGGGCTGCG	CAGCTATGCA	TTCCCGATGC	TCCTTGAAAT	GTCGTACTAT	240
	GTGGCGTGGG	TACTGGGTGT	GGCCACCCCG	ATGGCGCTGC	AGGGGTGTCG	ACATGCGACG	300
	GCGCTGTGTG	GGGCGGTGGT	GCCGAGCGGC	GCGGCGGGCG	TGGCCGCGAT	GAAGGCCGTC	360
	TGGGAGCTGC	CGGAGGCAGC	GCAGGAACTG	GTGGAGTACT	ACGGGGTATT	GTACGGGCCG	420
25	CGAGTGGTGA	TGGCGGCGGT	AGCAGCGTGC	GGGGAGTTCT	ACAGCGTGCT	GCTGGTGCAG	480
	AAGCTGTATC	TGCGAGTCGC	GGATAAGGGG	GACGACCCAG	AAGGGCGACG	CGGCGCCGGT	540
	CAGCCGGTTG	GCGCTGAATG	CTGACCATGA	CAAACCTCTT	CAACTGTTTC	TTCGCGAACG	600
	CAACGTTTCA	CACTCCTNCA	AAATAACCCC	CACNGCGNTC	CCCTCTAACC	NATTTGGATT	660
	GGANCCGGGG	CCCANCTTTG	GTTCTCNTGG	GCTTCCACCN	CAACTTTNGC	GGTGGCTGCN	720
	TTTGCCCTGCC	CTGCACGGCC	NATACTTTTT	ATCTTGCCCT	CCCTGCCTGT	TCCTGTGCCA	780
30	ACCTGTTGCC	CACCAAAGGT	GCACTCNNTT	ANCTGTGCCC	TAGGTTGCCC	CGNGCCCCGC	840
	GGGTTTTTCN	ATACCANTNA	NACNCTCCT				

1365RP

	GATCTGCGGC	CGGCGGAAGA	CGCAGAGGAA	AGCGAATCGA	GCGCGGGAGA	GCGCTACTCG	60
35	ACGGACAAAA	GCAGTTACGC	GTCCTCCGTG	CAGGCGGTGC	TCAGAGCGAG	GACAGCGTCG	120
	GCAGCCAGCG	CAGATACAGC	AATGAGCAGT	TCAACGGCAG	CCAGCGATAG	CGCGGGCGGC	180
	GCTAAGATGG	ATGCAGCCGA	CGCAGATGAC	GCGACGCGCA	GCTTGGAGCT	GCGGCTTGCA	240
	GCCCTCGCCA	CGCAGGACCC	GGCTGTGGAC	AGCGCAGACA	CGGCGAGCGG	CGCGTCGCCG	300
	GCGTCGCCCG	CCGCGCCGCC	CAGCCC CGCG	CCCANCGCGG	CGACGGAGGG	GTCGGACGAG	360
40	GCGGCCGCGC	CGCTGGAGGT	GCCCAAGCAG	CGCGGCGACG	CGGGCACGGC	GGCCGCGCGC	420
	GAGCCGGTGC	GGCGGCGGCC	CACCAACCCC	TTCCGCGTGA	TTTCGGTTCG	CGGCTCCAGC	480
	ACGTTCAAGC	GCGCGGCGGG	CGCGGACGGG	CAGGCGTCGC	GCACGTCTGC	CGCGGGCGAC	540
	AAGGCCGCAC	CCGTGTCCGC	GAACGAGCAG	AGCATGCTCA	AGTTGCCGCG	CNAGCNCANC	600
	TACCTTGACC	ATGAATTCTT	CNACTGTTCA	AAGANATTAA	TTTCCTGANA	ACNTGAANAA	660
	ANCGGTCCCT	GTNCTTGAAG	AANCCCCCN	ANTAACNACC	CCCTNGACAG	CTCNGATTTT	720
45	CTCCNCCTTA	TTNTAAAAAA	TTTCAAATNC	GGGTGTTNCT	TCCCCCNCTN	CCCAACNTTT	780
	TAAAANGTTC	CCACGGCNTN	NTGNCCCN	NATTTGGCCC	CCCGTTCCNT	TNCCCNNGT	

1365UP

	GATCACGTGA	CGTTTCATGGA	GCGTGCAGCA	CTGCACGACA	GCGAAGCGGT	GGTGC GCGCG	60
50	ACGCGCGGGG	CGGCCGTGCA	GCTGTATGTG	GGGCCCCGGG	GCGGGCTGCG	GGGGCGCCTG	120
	GCGGAGGCGC	TGGACGAGTT	GCTGGGCGGA	CCCTTAGCGG	CGAGCCCACT	GCGGCCCGCG	180
	TGGGATGTGT	ACTTTATGCA	GCTGGCGCGG	CTCGCGGCCT	CCCCTTCCAA	CTGCATGAAG	240
	CGGCGTGTGC	GGTGCGTGAT	TGTGCGCGCC	TGCCGCGTCA	TTGCCACCGG	GTATAATGGG	300

	ACGCCGCGCC	ACTTGCGCAA	TTGCCACGAC	GGCGGGTGCG	CGCGCTGCAA	CGGCGGCGGC	360
	AGTGCGCTGC	ACACCTGTCT	CTGCTTACAC	GCGGAGGAGA	ATGCGTTACT	GGAGGCCGGG	420
	CGGGAGCGCG	TGGGCGAGGG	CGCGGTGCTG	TACTGCGACA	CCTGTCCGTG	TTTGACATGT	480
5	TCGGTGAAGA	TCGTTCAAGC	GGGGATCACG	GAGGTGGTTT	ACTCGCAGAC	CTACCGGATG	540
	GACAGCGACA	GCTTCAAGGT	ACTGCGGGCG	GGCGGCGTCA	GGTCCCGGCA	GCTACAGGAC	600
	GCGTTCCCCC	GCACTTTTTA	TTATATNNGC	NGGCNGCTTT	CCGNGCAACN	GCTAAACTTG	660
	CTGTTTTTNC	ATATAAGGNC	CCGGCGGTNC	CGACTNCAAA	GNAATNCCNC	AACNNTTCTT	720
	TNTTCCGAG	GCNGGGGAAT	TTTCCCCGGA	TNTNNGGCC	CCCCCGTNN	TGCCGTTACC	780
	CANTTCCCCT	GCCCAATCCT	CCCCGCGAAN	CCNCCNCCAA	CCGTCTCGNN	TTNCTCCACC	840
	CGNCCTGNCC	T					

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1366RP

	GATCCAAACGG	TCAACCAATG	CCTCCGAGAT	TGCCGGCATA	GCGGATGAGA	TTGCCAAAGC	60
	GGAGAAGCAG	GACAGCTCCG	CGGCGGTGTC	TGCCATGGGT	GCCGTCCCTAG	GGCATGCAGC	120
5	GAGTCCTTTC	GGTGCTTTGA	ACGTGCTTAA	CAGTTCTGCC	GAGCTCTTGA	ACCAGCCGGG	180
	AGCAAAGCCT	GCTGCCGGTG	CTCTCAAGGG	CATGATGGAG	GCTGCGTCTA	ACACGACTAA	240
	GGCAATTGAC	TTCATCATGG	AGCGTGCAAG	TCATCCAAAG	GCTGGCGCGG	CAGAGCAGGT	300
	GATGGGTCTA	GATATGGTAC	TCCAGAATGC	CGTGAACTCA	AGCGAAACCT	TTGCAAATAT	360
	CATAAAAATG	CAGATGGCAT	CGACCGAGGA	GTGCGAGAAG	GCCCTCCCAA	GTTTGTGTTGGG	420
	CTTGTGTGTCG	TACTCGACTG	ACAAGATCGA	GAGCATGAAA	TCCGTGATTA	AGCTGATAGA	480
10	GTTCCGGTGAA	AAGAGCCCTG	ATGTATTGAA	TCCTGTCTTA	GAAAGTGCTGC	AAGCTTCCGT	540
	GAAAGTCAAC	AGATTGATAC	CCTCCGAAAG	AAATTTTNGAC	TTACACCCAC	ATCCTGGAAA	600
	CTTCATNTTT	GCTGCGAGTT	ACAAACTGGC	ATTTCCCAAT	CTGCCATTGT	TTCCCTTAAC	660
	GGNCCCAAAA	GGTTTGACAC	CCNCCNNTCCT	NCAGGNITCA	ATNCCTACTC	CTNTNNCCNA	720
	CCNANGAATC	CNNTTGGCCC	TTNTTTAANN	CAAATCNGNC	CANATNTACC	CCCAGGTTTT	780
	TTTTGGAAAN	CCCTTTTANA	CCPTTCCCCC	CCTCCCTTTN	NAT		

1366UP

	GATCTTATCA	GGATAAATGA	TTTGCTCCCG	GAAAGTCGAT	AAATTGCTCA	TATATGCCCT	60
	CTGGGGGAGA	TAATATATCG	GACTTTCGCC	ATTTTCAGCA	TTTCTACGCG	GCATGATTAG	120
20	CTTCGTAGGC	TTCTTAGGGT	TAGTAAACGA	TTGCAAAACA	GGCCACAACC	CCCCAAGGAC	180
	CCTGAAAAGA	GAAGACTTGC	CGCAGCCATT	AGGACCTATA	ATCAATAGAT	GGTTACCATG	240
	CTTCAACTCG	AAGTTAAGTT	CGGGGATAAG	GACCTGATTA	GCAGGTGTCA	CTAGTGGAAC	300
	ATGAACGAAT	TGAATCTTAG	AATCGTCGTA	TTCTATAATG	ACCTTTTTTCC	CATCAGTCTT	360
	CGAACTACTT	CCAGCGTCTA	GCCTGTCAAT	GAAATTTGTT	AACCGTAGGG	CCCTCTCCCTT	420
	TAGCTGCTGG	ATACTACGGC	GCACTTCGAC	ATAGCGGCCA	ATAGATGCGG	ACGCAGTTAG	480
25	CAGTAAACGT	CTGTTGGTGA	TAAAATCAGC	GGTGACATCC	TCAGCCATAT	TAGAACGAAA	540
	GAAGACGGGG	ATAGAGCATA	ATATCAAGCC	CAGCAGCGCC	CCAGACGTAC	TTCAACACAA	600
	AGCTAGTACA	ATTCTGTACAG	TGCTCTTAAA	TTTATCTCCC	CCGGCTNAGA	ATAAGTTACT	660
	GGTTANAAAN	AAAAACCCAA	TCCCATATTC	GGTNTTTGAC	CNTGAATAAA	CNNTNCCNCN	720
	TTGCTTGACC	NCACTTGAAT	TTATGACCGA	ATTACCNCCA	TTTTCCCCTG	ACATACCGTT	780
	CAATTGNNNG	TTTGACCTCC	CAC TNATTAT	GATTNAAATC	AACCCATCCN	GTCTTCNCGC	840
30	TTTCCCTGGN	GATC					

1367RP

	GGATCCGCCCC	CCGTTCGCCCC	CGTGTGGCCC	CGTGCCCCGCC	GCCAGGGCCT	GCGCCGCGCG	60
35	CAGGCCACCC	GCGCCTCCGC	CGTGTGGCCC	TAGCGGATTG	TTCAATCCCT	GTGTTGCCTC	120
	CTGACTGTCC	ACTCGACCTC	TTGTATCCGC	ACCTTTCCTG	CAAGTGCGCC	CCAAACTCTG	180
	TTTTCTGTGC	TGTCCAGAGT	TTCCGTCTCT	GGCTGCGCTA	CTGCCTACCT	GCCGTTTGGT	240
	ATGGAGGAGA	AGTGTGTGTG	TATCTGATTT	GTTTATCTGC	TTTCCTTCTC	CTATAAGCTT	300
	TTTGTAATGA	AAAAAATTAT	GAAAACGGGA	AATCTGTGGA	ATTTGGAAAT	GCTGCTGGCG	360
	CTGCGTTGTT	CAACTTCCAG	CGCCGCGGTC	TCGTTCTACT	GCTCTGTTCT	TGGTCTAGCT	420
40	TTCCGTATTT	TTTCTGTCTG	GTTTCGCTTC	TTTTTTCTGC	AACGCAAGGG	CGCGCTGCGT	480
	GCCTGAGGTG	CCAGGTGGCT	GCACAAGTGC	GGGCGCCCGG	GAACCGAGCC	GGGTAGTTAC	540
	CGGGCAACTC	TGCCGCCGAT	CCCTGCGGGA	GGCTTACGGC	AGCGCTTATT	TAATTGTTAC	600
	GTAAGTCACG	TGGAGCTAGC	ACGTGCTTGG	CAGCTCAGCC	GCACGTACAG	TAGCGTGTGA	660
	CTAATCGCGG	CGACCTGGTG	GGTTAAANGA	CGGGTTACNC	CGTTAAGTTG	GAAACGCNCC	720
	AATAAATTAC	NTACCCNTTA	AACACACGGG	ANAAAAANAN	NCCCGGCNCA	NAAGNANCTT	780
45	TTGCCCTTGA	AGCCCGGTGC	CCCAAGCCCG	GNCCNCCCCA	GAAN		

1367UP

	GATCTTATGG	GTGGTTCTCT	AGGGCTGAAA	GGCGGATATG	GACAGTCGAA	ATGGGCAGCA	60
50	GAAATTTATTA	TAAAACGTGC	AGGTGAGCGT	GGGTACGCGG	GTTGTATATT	GAGGCCAGGC	120
	TATGTGACTG	GTTCCCTTTC	TACAGGAGCT	TCTAACCGGG	ATGACTTTCT	GCTCCGGTTC	180
	CTACGGGGAT	GTGTTCAAGT	AGGCAAAAT	CCTGATATGT	AAGGAACTGT	TAATATGGTA	240
	CCAGTTGATT	GTTAGCAACA	GTTAGCAACA	GCGGCTTCTT	TCTCGTCAAT	AGGCAATACA	300
	CATATGATGG	TTGTAAATGT	CAATGCGAAA	CCAAGAATAT	CATTCAAGGA	CTATCTACTA	360

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	GCACTGAAGG	AATACGGGTA	CCAGGTAACA	TCAGTTCCTT	ATGACGAGTG	GAGTAAGGCG	420
	CTTGAATCGT	CGAGTGATGA	AGAAAAATCCT	TTGTATCCGC	TATTGTACCT	TGTCCTAGAT	480
	GACTTGCTA	AAAAGTGGC	AGTCCTGAAC	TCGATACTAC	TAATGCGAAA	TTTGTTTTAG	540
5	AAGAAGATTT	TGCGCGGACG	AATATTGAGC	CAATTATCAT	TACTTCGGTG	TCATTAGAGT	600
	TGTGGGTCCC	CATATCTCAT	TTTTGCATAA	TTTAGCTCCC	NANAANAACC	ACCTAAAGTT	660
	CCCAGCCCCC	GCCNATATTC	NCTCTCCCGA	CGAACAAAATT	CCTTAATANC	NCATACCNCT	720
	GCNCCGAACA	TACANCAACC	CNTAAATACC	NCAAATTGTN	GACAACATGA	NTGTTTATTT	780
	TTTTTATATT	ACAACCTATT	ATTAAACAAA	TTNTNATCAC	GATCNTCTNT	GACGCCCTCT	840
	CTGACAAATT						
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1368RP

	GATCATCTGA	AGTAATATAG	AATCTGCATG	GGCGCAAACC	GTTGCGGTCC	AATGTAGCGC	60
	CGGTGTAGCG	GCCATCGGTA	AAGGTGAGCA	ACGCAGGGCC	ATCCCATGGT	TCCATCAAAC	120
5	AGGCGGCCCA	GTCAAACCAA	GCCTTCAGGT	TAGAATCCAT	GTCTTGTGG	TAGGCTTCTG	180
	GAACCATCAA	GCACATCGCT	TCGGGTAATG	ACAGAACACC	ATTTATCACT	AGTAATTCTA	240
	GCACATTGTC	CAGCGCGGCA	GAGTCGGATC	CGCCTTCTTC	GATAATCGGA	TAAAGCTTCT	300
	CCAGTTGGTC	TTGGAAAACG	GCGGATGCCA	TGACACCTTC	CTTCGCACGC	ATCCAGTTTT	360
	TGTTGCCTCT	TAGGGTATTA	ATTTACCCGT	TGTGTGCAAG	CCAGCGCAGA	GGCTGGGCAC	420
	GGTCCCAAGA	TGGGAATGTA	TTGGTTGGAG	AAACGAGAGT	GTACCAGCGC	CAGGTGAGAC	480
10	TTGAAATGAG	CATTGGTCAA	GTCTGTGTAA	TAATTATACA	CCTGGCAGGG	TCAATTGACC	540
	TTTGTACACA	ATTGTCCGGT	TATTTAGGAG	CACACAGTTA	ACAGTTCTGA	TACCGATGGC	600
	CGTTAAACCC	NNCTTTCTTT	AAATNTTAAA	CTGGCATCCN	GAAGTCTCTC	GTNATTANCC	660
	TGAATCTNCN	CCCGATACTC	CTGCCCATAT	TTCTTTTCNCN	CAACAACGTT	TTTGAAATGG	720
	TTTCCCAAAA	CCAAGGAACC	NAAAGAAATN	CTNTGGACNC	CTCCAACCCN	AACCCNNATT	780
	TAACAATCGG	TACTNGCCAA	TTTNTTCAAG	CNNAACCTGT	NNNCT		

1368UP

	GATCGTGACG	ACTTTGTGTT	TTACTTCAAC	CGTATTGCAA	CGATCTTGGT	TTCCGGGGCT	60
	TTGGATGACA	TTGCTATCGT	GCGGGATGAA	CTGCCATTGG	TGACTGCATC	CGGATATCAA	120
20	CTGGAGAAGC	CTGTTTCATGT	GAATTTTGAC	AAGATTACGG	CTGTGAATAT	TGTGCGCTCT	180
	GGCGACTGTT	TCATGGCTTC	CCTACGCAAA	ACAGTGCCAA	ATATATCCAT	CGGTAAATGT	240
	CTCATTCAGT	CTGACTCTCA	AACAGGTGAG	CCGCAGTTAC	ATTGCGAGTT	CTTACCAGTG	300
	AACATTGGCG	GCTCTTTTCGA	CCAGGTCCTA	TTGATGGATG	CACAAATAAT	CTCAGGCGCA	360
	GCAATTATCA	TGGCTATTCA	AGTGCTAGTT	GACCATGGTG	TTGAACTATC	AAAAATAAAG	420
	GTTATTGTCT	ACTTAGCCAC	TGAAATTGGA	ATAAGAAGGA	TAATAAATGC	CTTTAACAAC	480
25	AAAGTTATCAT	ATATGCGGGC	GAAATATAT	CAGACGAAAG	TATGACAGAT	GGCCAATGTA	540
	CTGGGCGAGG	GTGAGATTCA	TCGACTCAAG	ATACTTTGGC	TGTGACTGAT	TCAGAGCTTT	600
	TGCTGCCCAN	GCAGGAATTA	ANAACTTTGT	GTGCTATTGC	ATGTTACAAT	ATTAGCATTT	660
	ATCATCCATA	CCATAGCTGC	TTTACNATAG	CATNTAATTT	TACTATCTTT	NAACCCACCC	720
	AGACTATTTT	TCCCCCCNTA	CTTTACNAAN	ANTTTAANCA	ACTGACCCCC	CGNTATAATT	780
30	GCCCCATCCAA	CACCCCCCNC	CTCNTAANAA	ANACCNACTT	GGAACGAGTG	GGAACCNCC	

1369RP

	GATCGCCTAC	TTGTCTCAGG	AACTTGTAT	CATGAGAGAT	GATATGTGCA	ACAGGTTTAA	60
	GCGCAATAGC	ATTATTTTCC	CAACAGTGGA	AGAGGAACAG	AAACAGGAAT	ACATGCTGTT	120
35	ACAGCAGGAG	CTCCAGGATG	ATGAACGTAG	TTCGGATCTC	TCCATTAGTC	AACTGATTAA	180
	GTCCAGGGAC	CAATTGCCTG	CCAGTGTCCA	GGAGTCCAGG	AAGATAGTCA	AAACCATCCT	240
	CGATCAGCAA	CACCTTTTCGC	CCTTTACCTC	GCAGGTGCGC	CCTATAACGT	GGGACTATGA	300
	CTACACGTTG	CACCTGTCCC	CAATACCCTC	CACATATGATC	ATTGCGGACC	CAACTGCACC	360
	GAAATATGAT	GTTACTTACA	ACGGCTGCAA	GAGTATCAAT	CCAGGCTCAT	TTCTCCACAA	420
	GCGGAGCGTC	AACTATACTG	AGTACACTCC	TTCTGTTACGG	AAAGCAACAG	AGGAAGAAAT	480
40	TGTCTGTAG	GACTTTAAAC	TTACATATAA	TGTCAAATAT	AAAGGTTTCA	GACGTCGTCA	540
	TGTTTTCGTAT	GGATATTTCT	TGAACCTTTT	CCGTAATATC	GTATGGCATA	CAGTAGAGGG	600
	GGTCAATNGG	AACAACCCGN	CGTGCTTCTT	CAAACCTGGNC	CCCANNCAAT	CCCAAAAAAT	660
	TNTGGAAAAC	TTCCACCTAG	ATTTTCTGGC	CATCGCNGAT	GCCCNCCNCT	CTTTGATTCC	720
	TNCANCCCCA	GANNAATCNC	CNCTTTCTCT	GNTCATCCAT	NCCCNNTNGC	CCAATTCCNA	780
45	NCGTTAAANG	CCCCCCCCNC	TTTTCAACTT	TNGGATPTTN	NTNGTTTCCG	TCGGCINNCC	840
	CCGTNCAGAC	C					

1369UP

	GATCAAGACG	AAGCAGAAGA	AGACGCGGTA	CGCATGTACG	TGCCACCTGG	TGCCGTCGGA	60
	GGCGGCCAAG	GCGATCGCTC	TGGAGCGCGA	CACGCGCCTG	GGGCTGGTAA	TATGCGTGGA	120
50	CCCGACGGTG	GACACACGGG	CGCCGCACAT	ACAGAGCATT	CTGGCGCAGC	AGCAGAGGAA	180
	GTACGGGCGC	ACGGTGCCAA	CCATCCGTGT	GGCGGTGATT	AATTCGATCG	AACATTGCGA	240
	GTTGTTTTTC	GGCAAAAACG	TCGACCGGAA	CACACGGGAC	TACCTGGTAA	ACGTGAGCGC	300
	TGCAATGGTG	GTGTTGCGCG	ATGTGGTGGG	GACCTTGCCG	CCCGACCTGA	GGCCAAATATA	360

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	TTCGCAAAAC	CTGAGGTACC	TGATAGACTG	GTTGGATACC	CCTGAGAGGC	CATGGCCGTT	420
	GCCGGACTTC	TATCCGGTGA	AGGTATACAC	TGCAATGGAC	GTGGAGCGCT	CGCTGCTGAC	480
	CGAGGTGAAA	TACTCCCCAG	AATAATGACT	CCCTTGGAGG	ATGCGTTTTA	CCAACGGCAA	540
5	GAAACTTACC	ATAGTTCCNT	GGACAAAGGA	ACCGTGGAAA	TGCGCCGATC	TCCCTACTAC	600
	CCAAATAAGC	GTTTTTGAAAA	ATGACTACAT	TNGAATCCCN	CCNACCAAAA	TTGAACACTC	660
	CCCGGAANNA	NCATACNAAN	CCAAAAGTTT	GCTAAATATC	TCTTTCCNTN	GTACACTGAC	720
	CCCNACTNTT	GCAGGGAAAG	GNCTGTTTTT	AAACTTCCAC	TCNGACTTNA	TTTTACCCCT	780
	CCCGCATCC	ACCNAANCAA	CACCTNTTCN	AACCATAGAA	CNNTTTTCCT	TTTAAACAC	840
	TNAGAAGCAT	TTNAAAAT					
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1370RP

	GATCTTGTAC	AACTGAGCCT	AGGTCTTGTT	GTTGAACGGT	AACCTCCACA	TTCATTATTG	60
	GCTCCAATAT	GGAGAACGCC	GAAGTTGGTA	AACTCGTCAG	TGCTGATATG	ATTAAAGGAC	120
5	GCACAGTCAG	CAGAATGGAT	GCAGCTGCTG	CGCAGTCTAG	CGGTAGCCGC	CAGCGTTTAA	180
	CATGAATCAC	ACACGAGTGT	AGAGGAAAGC	CTGCGGTTTT	ACCACCTCTT	TGCAAAGCCA	240
	CTATGCAACA	CGAGATGATA	GAGTTCACGA	ATGCCCTCATA	TTTCAATGGA	AATGGCCAAT	300
	TGTCTTCGTT	AAAGCGTGGG	TTTGGATCTA	TGACAAGATA	GTTATTATCG	CTTCCCAAGG	360
	GGTACCATCC	GTTACTGAAT	AGTACTTTAT	CTTCTTCAIT	GTATTGCCGA	ACTTCGAGTT	420
	CGAACGAATA	TCCATCATCT	GTTTCAGAGT	GCTTCCTCTC	TGTAGCAGTA	TTAATGGTTT	480
10	CCTTGTATGA	AACTGCTACC	TTGCCTACTC	TTACAGGCGC	CTTAAATTCA	TTGAGCAGCC	540
	GTCCGCTGCT	ATTTCCAGTG	CATTCCCCCC	ATCCCATTTCA	TCACTGTCTG	ACCACTCTCC	600
	TCATCCCTCA	CNAATACCAC	NACGGTTCCC	CNCTCGTTAG	CTGCNNCANG	ATCACCCNAT	660
	ANCCTTTTNT	TCCCCAANTT	CCCCGGTCCN	NCANCGNCC	AAAANGGTGG	NGGTANTCAT	720
	GGGTNTTTC	CANTTGNANT	TCNGCTTTTG	AAAAACAATC	CCCTTTAAGN	TNNAAGNCNA	780
15	AANGGGTTCC	CTTCTAANTG	TGTCCCCCTG	GGCCCNCCNC	CCCAATNCCG	AGAT	

1370UP

	GATCGCAGAG	GAGGAGCCCA	TTCCGACGCT	TGCATGGAAG	GAGGACACCT	TTGAGAATTT	60
	TCTGGCCGAG	GTGACATCCG	ATGAGGCGCG	CGAGACGCTG	GTTTCCGAGG	AGGATGCCGC	120
20	CACCTACCTG	GCCAAGCTTT	TATGACGGCT	GTCCGTGCTT	TTAAATTGTT	ACATACTGTA	180
	CATATTCCGT	TTAGTCGTAC	CACATTTTGA	TCAGCTCTTC	GGAAACCGCG	CTGGGCGTCA	240
	CACGCGCCAG	GTCTGTGATC	AGCGCGGTAA	TGTGCTCGTG	CGAGGTGTAG	TCGATGGACG	300
	GGCTTAGCAG	CTGCTCTGAC	TCGTGCTGCG	CGGAGAAGTC	CAGCGGGTCA	CGCTCCATGG	360
	GCAAGTCGTC	GGGGGAAAGC	GGGAACATCC	TTACAAACTT	GTGCGATTCT	CTTACCACGT	420
25	AGAATGGCTT	GCGTGCGTTC	TTGGCGAGGA	CCCCTACCGT	GTACGTCCCC	ACGAGATTTA	480
	TGATGCCGCC	GGACTCGGCC	ACGCCCTCCG	CGCCAACCAG	CACCTGTCTGA	TTTTGTGTAT	540
	GATGGACCCA	CCGCGCTGTC	CACGATCATC	GTCACCGGAT	GCCCTTTGCT	TGCAGCAGGT	600
	CATACAGCTG	CTTGCCCTGC	CCCGAAGGCC	CGTGCTCCGT	CACGANACAC	CGGAAGCAAT	660
	CACTCTCACC	TGTTACTCAC	ACGAAANNCG	CCCGCAAACC	AGTTCCCAAA	AAGTCTCCTC	720
	TGTTAGATCC	NCCCATCTTT	GTNCTTTTNT	TNGACGCTTG	CCCGAANCAA	AACGTCCNTT	780
30	CCNCGTTGTC	TGCTGNACCC	CCCTCCCANAA	TNTTTTTCCT	CCCCCNCCC	NATTTCTNTCT	840

1371RP

	GATCGAGAAC	AACTACGACA	ACAGCCACGC	AGACGGCGCG	GAAGCGCTCA	AGCCGAGCTA	60
	TATTTTTGAG	TACCTTGCCCT	CGCTCATGTA	CCAGCGCCGC	TCAAAGCTGA	ACCCGCTCTG	120
	GAACGCCATC	ATCGTCGCCG	GCGTCGAGGA	CGGCCAGGCC	TTCTTGCGTT	ATGTGGACCT	180
	CAAGGGCGTC	AAGTACTCCG	CCCCAAGCTT	GGCTACTGGC	TTTGGCGCCC	ATATGGCCAT	240
	TCCTCTCATG	CGTAAAGTCG	CAGATGCCGA	AAAAGACGTC	GCCGGCGTCG	ACCTCTCAAT	300
	TGCGCGAGCG	ACTATCCTGG	AGTCCATGAA	GGTGTTATTC	TACCGCGATG	CGCGTAGTTC	360
40	CCGTGCGTTC	TGCTTTGCCA	TCATCGACAA	TGATGCCGGT	GTCAGCATGG	AGCAACTGGA	420
	AGTGGAAGAC	ATGACCTGGG	GGTTCGCCAA	GGATATTCCG	GGCTATGGCA	CCCAGAATGT	480
	CTGAGTACCG	GCGCGCAAGC	GCCGCACCTG	TATACTATCT	TGTCGCGGCT	GCTCGCCAAC	540
	CGCTGGCTAC	TCACATACAT	ATCAAGATGC	ATAATCAATC	TGCTCATGAA	CGCACCTCTG	600
	TTTTGTGGAT	ACTCTTCTCG	CGCGTATCCT	GAGTACGCTG	GAGTGCAAAA	AGAGCCACTT	660
	TGAAACAACA	CGAGTCGCAG	CTAAGNGGAN	ATCCGANTAA	NCAACNCACA	CTTCAATTGA	720
45	CTTATGAAAT	GCCCAAGGTT	GATTGAACTG	ACGTCTCTGG	AACNNTGGGN	CGTGGAACG	780
	CCCTCTTCAN	TTGAACCAAA	GTCCACAANN	AGGTATTTNT	TTNAACCGTT	CCGCC	

1371UP

	GATCCATTGT	GCGTTTGGAG	GTCACGCCAC	GGACGTGGAC	ATGTACGTGA	TGAGCTTCGA	60
	CGGGCAGCTC	TTCAATTCGTG	CGGCACGCAA	GAAGCTTGAG	TTCCCGACGT	CTCCGCGGGA	120
	GAGTTGGGCG	TACCTTTCGT	ATTACAGCGG	ATACAAATTC	GAGCGCATGG	CGCTCCTGGA	180
	CCGTCCGGTG	CCCGAAACTC	CCGCGAGGT	TCTGGAGAGC	CGCGGCAAAC	AGGTCCGTCG	240
	CAACGGTCCG	CAATACAGGA	CTGTGATGAG	AACCGGCGTC	GGGGAGCACA	AGCTGGTGCT	300
55	CGGAGCTGAG	ATCGACGGCA	TCATTGACTT	CCGCGAGCCT	ACGGGCGACA	ACCTGAAGCA	360

CTACGTGGAG	CTGAAGGTGT	GTCAGAAGAA	CCGGAACCTTC	TCAGAGAAAC	TTTTCTCTTC	420
TTGGCTGCAA	TGCTTTCTGG	TGGGCATAAA	CAGGGTTATT	ATTGGATTCC	GGGATGAGAA	480
ATTTCGTCTG	AAGAGCGTCG	AGGAGTTCGN	TACGTCAGAG	ATCCCACACC	TGTTAAAGGG	540
CACGGAATAT	TCCAATGTAT	GTGTGGACGC	AATAGAGTGG	TATGGTGCTC	TTACGAAGTG	600
GCTATGTGAG	CTCCGCGGGG	CCTGAANACA	CTTCAACTGT	ACAGCTCTCC	NGCTCCCNTG	660
GTGCTTACGT	NTGCNCCCCT	GCCCNACAAT	ACTCCCNAN	NGGGACNATT	NTCCTGTTTG	720
TTCCCCAATT	GGCGCGGCC	CNATATAANN	CANATTCCNN	CNTTNTTTCC	CTTNTGNTTT	780
TAAAAACCCN	TTNTTCCCAC	CNATTTNCCC	AGANNACANA	GGNNNTCCCC	ACCANNCTTN	840
CCCANCCNCA						

1372RP

GATCTTAAAA	TAAGATAGAA	TGGTAATAAA	TATCATTCAG	GTACAATAGA	TGCTGGTGT	60
ACTAAAGGAT	TACCTGGAAT	ATAATTATCA	GGATGTCTTA	AAGTATTAGG	TGAAAAGAAT	120
ACAAATAATG	AAAAGAAAAAT	TATAAATACA	AATACTGTTA	CTAAATCTTT	AAAAATAAAA	180
TAACCATGCA	TTGGTAATCT	ATCTAAATTA	CCTGTAATAC	CTAATGGATT	TGATGAACCA	240
TGTACATGTA	ATAGCATTAA	ATGCATAAAT	ACTATTGCTG	CAATAATAAA	TGGTACTAAA	300
TAATGAAATA	GAAAGAATCT	TATAATAGTA	GGATTACTAA	CACATAAATGA	TCCTCATAAT	360
CATAGTACAA	TATCATTTCC	AATAAATGGA	ATAGCACTAA	ATAAATTAGT	AATAACAGTA	420
GCACCTCAAT	GTGACATTTG	TCCATATACT	AAACAATAAC	CTAAGAAAGC	TGCTGCTATA	480
GTTAAAAATA	AGATAATAAC	ACCAACTGTT	CATACAATAA	CTCTAGGTGA	TTTATAAGAA	540
CCATAATATA	AACCTTTACC	AATATGAATA	TACATAACAA	TAAAGAAGAA	TGAAGCACCA	600
TTAAGATGCA	TATATCTAAT	TAATCAACCT	AGTTGTACTC	TCTCATAATA	TGTTCTACTG	660
ATGANAAAGC	TAATCCATAT	TANATGAATA	AGCATNNCTA	AAAAATACCN	GTNAGAATTG	720
AATACTAACN	TAACCTATAA	AACCNAATTC	NTCCATATAA	TGAGAAGGTG	AGGGAATCAT	780
ACNACTATAA	CNATTTAATA	TATTGATTCT	ATTNCCATTT	TNTTNTNAAT	TTTTTC	

1372UP

GATCTAGAAT	TATTAAAGTCA	ACTATTAACT	AATATCTATA	ATAATAATGG	TTTATCATT	60
AAATCATTA	AGATAATTAT	TAATAAATTA	CCATTAAATA	ATGATATATT	ATTATCAAAA	120
AATTATGTTA	ATAAAATAAA	TAAATATAAT	TTACTAATTA	ATAATAATTT	AAATAATAAT	180
AAAAAAGATT	TAATTAATTT	ATATACTTTA	GATAATAAAT	TATTAGATTT	AAGTATTCTT	240
AATAATATAT	TATTAGGTAA	ATATTTAGTA	GGTAGTAATA	TCCAATTAAA	GGGTAGACTA	300
TTAAATAGAA	ATATTACTAG	ACTAATAAAA	ATAAATATTA	TGAAAGGTAC	ATTTAATAAT	360
TATATATATC	AATGAAGTAA	ATTAAATAAT	TTATATAAAT	TAAATTATAT	ATCACTTAAT	420
ATTAATAAAC	TTAATAATCT	ATTTATTAAT	AAAAATGGTA	TATTTAATAT	TAAAAATTAA	480
TTAAATACTA	TTTAATAAAT	ATTCTAAAGT	AATTTCTTAT	TTATTTTATA	ACATTTTAAA	540
ATGTTTTATG	TTAAATAGAT	AATAATCAAT	TAAATAATAA	AAATTAAGAT	GCCACAAATA	600
ATTCCATTTT	CTTTATGAAT	CAATTAACCT	ATGGTTTCTA	TTTATTTTAC	NATTTATCNC	660
ACTACTNATG	TTTTTTTACC	NNTGAAPTTN	ANAATATATA	CTCNCNANTA	NATATTNCNA	720
AATTATAATA	TTAATTAAAT	TTAATTAACT	TATTTATGATC	CTNNVTNTAA	ANATATCAGA	780
ANAATTTAAT	ATATATATNG	AAATATNTTT	ATCCCCCNGG	NCACTTGAAN	AAAANTATAG	840
TTTCNTCCCC	ACAT					

1373RP

GATCTTAATT	TAAAAATTTA	ATTAACATTT	TATAAATTTAG	AAATATATAA	TCTAGAGATA	60
TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAAATAAAAT	TAGTAAAAATA	120
AATAGAAAAC	CATAAGTTAA	TTGAATTCATA	AAGAAAAAATG	GAATTATTTG	TGGCATCTTA	180
ATTTTTATTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
ATAAATAAGA	AATTACTTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTTAATATT	300
AAATATACCA	TTTTTATTTA	TAAATAGATT	ATTAAGTTTA	TTAATATTTA	GTGATATATA	360
ATTTAATTTA	TATAAATTTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420
TTTCATAATA	TTTTTTTFTA	TTAGTCTAGT	AATATCTTAT	TTAATAGTCT	ACCTTTTAAT	480
TGGATATTAC	TACCTACTAA	ATATTTACCT	AAATAATATAT	TATTAAGAAT	ACTTAAATCT	540
AATAATTTAT	TATCTAAAGT	ATATAAATTA	ATTAATCTTT	TTAATTATAA	TTTTAAATCAT	600
TATAATAAGT	AAATATATTA	TTATTTTATT	AACATAATTT	TTGATAATAA	TATACCATTA	660
TTAATGGNNN	TTATAANAAT	TATCTTNAAG	GATTTNNNTG	AAANCCTTNN	TTTTAGAAAT	720
TNGGTAAANG	TGNNCTAAAN	NCCAATCCCN	AATTATTAAA	TTAATTTAAN	AANAANNANC	780
CTTTTNTTNA	ATTTAGTTTN	AATTTAACCC	NCTCCCCNTT	TTAANAT		

1374RP

	GATCAATGAT	AAATCGAAAT	AAACTGATAC	TATTGTAGCC	ATTTTCTGA	ATTAGCACCT	60
	GGAAACACTT	TTTAACTGT	TCCGGAGTGG	TCTCTGACTG	ATTGGAGTTG	AGCGTCTCGC	120
5	GCGTAACTGC	CTCTGCTGTC	GTCTTAGCTC	CGACGTTTTC	CACTGCCCGC	CGCTGGGTGCG	180
	CCACACGCGT	CTTCTTCTGA	ACTGCGAGTG	GCCCCAACAT	GTGGTCCACT	AGCGTTGGTG	240
	CGCCGCCAAG	TTGCTGGAAT	AACGCACCCA	TCTTAAACCA	GTTGAACTGT	GCAAAATCTC	300
	CATACGCTTC	GAATTGCCTG	AGATAGGAGT	TGCGCTGCAT	GCTCTGGCGA	AGAGCAGCAT	360
	CCGCATGCTG	ATTGGTGCTC	TCATCTAGAG	CGTCGCTGGT	AGCATCTCCA	TCATTTTTCGA	420
	TGCTGTCTGT	CTGGGTATTG	CTAGCATCGT	CTGTTTCCGG	ATACATAGAG	CCAGGTACAC	480
10	TCACGTGATT	CAACTCAAGG	TAGTCTTCCA	GCAGAAACCG	CTTCGCCCGG	TTGACAAACT	540
	CCTCAGGGCT	CAAAAGCTTC	CCCGCATTTG	TCAGTTTTAG	ATTGCGTATA	CTCAAGCTTG	600
	CAAGTCGCTG	ACGCTCATCA	CGGCATGCGA	ATCCTGGGCA	AAAGAGAATT	GACCTCAGTT	660
	CAATCGCCCG	CCCTGCTTTA	AAAACATATT	AACTCTCCCN	CCGCNCNCAG	GANAGAATNC	720
	TCCCGTACTT	CNANGNAGNC	ANCTNTGCC	NTCATCTCAA	ATTGCGNACC	TNGTNANTTG	780
	GANCCNTTCC	CGAGCCCCCTC	TGCCCCCCTA	TTGANGNTCG	NCCCCGTTCC	A	

1374UP

	GATCTTAAAG	GCGGATATAA	AAGCTGTACA	AAAGAAGATG	AACAAGCTTC	CAACGCTTCT	60
	AAACTTTGAT	ACTTCCGCCA	TTGCCTTGGA	AGATGAAGGC	GAAACAAAAG	AAAGTACCGA	120
20	ATTTAGGGCT	ATTATTAAAG	AGTTTGA AAC	ACAAAATAGT	TTCCAGAAGA	TTTTATATGG	180
	GAATTAATAG	ATAAGACTAG	CATCTTTCCA	AAACTTTATA	TAAACCAGGC	AGATTAGCTA	240
	CCTCTACAAT	GTCCTTTCAGA	AGTCTCGTCG	ACGCTAGGAG	TCGCCTCTTT	ATCGTTGGGA	300
	AAACCACTTG	TTCCAGAACT	GTCCCAATAT	GCTCTGCCTT	GGAAATATAA	TAAGCGCGAA	360
	CATCGCCATC	GATTGTGTCG	TCGTTTATAT	CTACGTGCTC	AATAATCTCA	GGAATATAGA	420
	ACAAGGCAAG	TTGTGGAAGG	ATTCCCTCTA	GGCACTCCTT	TTCCGACGAC	CAATCTACCT	480
25	TAGTTCCCAT	CTGTGTAGAG	AAAAATCGAA	GTTTAGAAAG	AGGCGGGACA	TAATCCTTTA	540
	AAAGTAAGGG	TACACTCTTA	ATGCGAACGT	TCGTCAAATC	GGTCTCGTCT	CCACATATTT	600
	CAATCGAGTA	ATAGTTCTCT	AGCATTCCTT	CATGTCCACA	CTGTTGAGTT	ATTCCAAATA	660
	TCGAATGCCA	CGCATTATCC	ATCTTAGATA	NCGTTGGTAT	ATCGCTAACT	TCCGCAATCT	720
	CAACNCANC	CTNGATATNA	TTTCCCGAAN	TTTGNNAATN	NNNATCCCAT	TGANAAAATT	780
30	CCTTCCTTAG	GACCTATCAC	CCAAATANTT	AACCGCGNTT	NANGATCCCT	GNTTGGTCAC	840
	AACCNCNGGT	CTTNNNN					

1375RP

35	GATCTTAATT	TAAAATTTTA	ATTAACCTATT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATAAAAT	TAGTAAAATA	120
	AATAGAAAAC	CATAAGTTAA	TTGATTTCATA	AAGAAAAATG	GAATTATTTG	TGGCATCTTA	180
	ATTTTTATTA	TTTAAITGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTTAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
40	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420
	TTTCATAATA	TTTATTTTAA	TTAGTCTAGT	AATATTTCTA	TTTAATAGTC	TACCTTTTAA	480
	TTGGATATTA	CTACCTACTA	AATATTTACC	TAATAATATA	TTATTAAGAA	TACTTAAATC	540
	TAATAATTTA	TTATCTAAAG	TATATAAATT	AATTAATCT	TTTTTATTAT	TATTTAAATT	600
	ATTATTAATT	AGTAAATTAT	ATTTATTTAT	TTTATAACAT	AATTTTGTGA	TAATAATATA	660
	TCATTATTAA	ATGGTAAATT	ATTAATAATT	ATCTTTATGA	TTTATGACAA	CCATATATTA	720
45	TAGANATTGT	TAATAGTTGA	CTAATATCCN	ATCCAACCTN	TATTNATTTA	NAGATCATAN	780
	ACCTTTTATA	CAATTATTTT	NATATAACAT	NTACCTNATT	ANAATATN		

1378RP

5 GATCCTTATA AAATGGGCAA TAGACGTGTT ATAAT
 ATTTAATAAA ATATAAAATT AATAATTAAA GTATT
 AATAAGTATG GATTTTAAAC TGAAATTTGT TAAAA
 TTAATAAGAA AGTAATGGTG AATACTCTAA CTGTT
 GAAACATATA ATTAATAAAA GAATATTAAT TAATT
 TTATTTAATA AATATAATAA ATATTTTAAT TTAAAT
 ACAGTTACTG TAGGGGAACC TGCAGTGGGC TTATA
 10 AAAATAAATA TATTTTAA TATATTTTAT AATAAG
 ATTATAATTT AATAATTTAA TAACTTATTA ATTAG
 GCTATGCATT ATGGTTGGTA CACTCTAATT AATAA
 TTATACCATN AATTATAATT ATTTTAAANA NATTT
 AGTATTNTNA TTTNATAATA ATAAAAATGA NAAAA
 ANANTTACCC TTACACCTCC CNTTAAATTT TTACCC
 15 GNGNNCCCCN TGCTCCCCNN TGTCCCCCCC ATTNN

1378UP

20 GATCCTTGCG TACTAAGAGT TAGACTTTAA TTAAT
 CATACTGACT CACGTCGTAT TTAACCCAAC TCACG
 AACCCTACTT AGCTGTTACA ACCAAGAGGA TAGGT
 TAACTTACAA TAGCTACTCT ATCGTTATAT TACCC
 ATTTAATTAT TATTTCAATA ATTCTCATTA TTGTT
 ATTAATTAAT ACATATTGGG CTTTCGTGGA TATAAT
 TAGTCGTTGA ACGTTCTTAT AACTTTATAA AAAGG
 25 GTCCTTTATT ATTATAAAAT AATATTAGGA GTTCT
 ATATTTAAAT ATTGATAATT AAATTCACA ATTTAP
 TAACTTTAT TCGTTATCAA ATACCATTAC AATATC
 TTACGTTATT GTTCTACTTG TAGGTATTAC AATTAT
 TTTATATATA TCCCATATAA GTTTTATTA ACATA
 TATATAAAAT ATNATTATAT TAATNATTTA TTAANA
 30 TCNTTTTAA TAATAAATTA TTAAGGACTN TCCAAC
 ATTAATGTC NT

1379RP

35 GATCCAATTC TCTCGGTAGT TTCCTTCCAT ATAGAG
 CAACAAAAGA GTTCTATCT AACGTGCCAT CGCGTC
 GAGCCAAAGT ATCTTGAGGT AGATTGCTTC GAGACC
 ACATTAGACC ATCCTCTGGC ACCTCTCTTG TCTCAT
 GGAGCAAGTC AAGATAAGTG TCTCTATTGC TGACCC
 CCCTTTCAGT TACGTACCCA ACATCAAGGT GCGACT
 40 AATTACGGTA TCGAAGATT TGACGTATCT TCTCGC

45 GACTTCGACT ACGGGAGTTG CGGTGCGCTC CGTAA
 CGCTTAGTTG ATGGGGCTCT GAGCTGGAAC TGTCA
 TTAGCCGCAC ATGCAATTTA CTCTGCACGA GAGCGT
 ACGTTGGCGG GTGATTCTTG CTGGGGCCTA GCCCAC
 CATCCACTTG GANTGCTGCG TTGANANTTT GGTAT
 CCAGTTCATA GGAATTTGTT CATGTCAATT ACAAN
 CNTGTACAGT CGANGNATNT GTCNTCCGTA CANCTC
 50 CNCNN

55

1379UP

	GATCCGGAAG	TTAACACTGC	CTGGGATTCA	TAACCTGGCA	ACAGCGTATG	TGCGTGTGAA	60
	CATAGTCGAT	GGAGCACATG	AATTGGGGTA	TCAATACTGA	TTTCATAATG	CTTTCTGGAG	120
5	CCATTGACCT	TGCGTGACAA	CCTCAAACAT	ATTTGGAGCC	AATGGTTGGA	CTTTATGTGG	180
	GGAGATGCAG	TATTTCGGATG	TATGCACTGT	TGGTAGTTCA	ATCTTTTCGG	GACAAAAACC	240
	TGGTAAGTGA	ATTGTCTCTT	TGAAGCGCCA	CCCGCTCCAT	CATCCAGCAG	GTTTCCTAAG	300
	TTTTTAGCAC	GCGAAAGGCT	CGCGCCTTCG	TGTATACCC	TAAGTGGTGG	TGCTTTGTGC	360
	TCGACCAGCA	AGAACTTCTT	TGTAGGCTCC	ACTCGGTGTA	CTTTCCGACC	TTTACAATAA	420
	TACTCTAAAG	TTTCCGTCAG	GAATATTCTA	ACCTGTGTGA	GCACGAGATT	AGCCCGTGGG	480
10	TTTAGCGAGA	GCGATATTGG	TAGAAATGCG	TCCAAAACTA	TATCTTTTGA	TGCAATTACG	540
	ATPTCATAAC	TCAATTCTTT	TTCCCACTCA	CGTGATATGA	CTATCGGTTC	GGTATCTTCT	600
	ACAGAGTTCG	GAGATAGTGT	GCGGATAAGT	TAATCGGAAC	ACGACGTGGA	CATTGGACTT	660
	AAGGTCTTAT	GCCCTCAATG	TCACTCAAGC	AGGTATTTAC	GTTCCCNATG	TTACTAGAAT	720
	CTTCTTGCTC	GACNCCGGAN	TNGANCCCA	AGAAAAATA	TCCCGCCNG	AAAANAATTT	780
15	CCCTGGNGTG	ACGTGTGNAT	NACCCNACGA	AAACNTCCTC	CTTCGAANGT	NCCTTATATT	840
	CNNTNAAANA	ATANA					

1380RP

	GATCGCATCG	ACCTCGCCAA	AGTAAGGCAG	GCTCTCGACG	GAGATCCAGT	CGACAAGGTG	60
20	AGGAAGCGTG	GTGTTCTTAC	CCTCGAACAC	AATTGGCTCC	TTCTCGCCCG	GCAAGTGGAC	120
	CGCCAAGGTC	GGCTTCTTAG	TTGGGTACTG	CACAAATACA	AAGTCGTTC	GGAGCAGGTT	180
	GGCCAGTTTC	TAAAAGGACT	CGTTCAGGCC	CTTCACGCCA	CCGTCAACCA	CCACTGCGGT	240
	CTTGGAATCC	GCAAGCAGGT	CCTCCAGGTC	CTGGGCGGCC	TCTTGCCCT	CCAGCACCGT	300
	CACGCCCGGC	TCGGCCTGGC	GCAGCATGTA	CGCCACAATT	TCTTCGGCCT	TGCGTGCGCC	360
	CGTGATGGC	ATGCCCTCCT	CTGACGCCCC	ACTGTGGAAC	ACCTTCAGCG	TCGGGTACCC	420
25	GCGCACGTTT	TGGCCCGCGC	ATAGATCCAG	CTCTGCTCG	CAGTCCACCT	GCGCCAGGTC	480
	GATGCCCTTC	TCGGCCAGCT	CCCCAGCCGC	CTTCACGTAC	TCCGGTGCCA	GGTGCTTACA	540
	GTGGCCACAC	CATGGCGCAT	AAAACCTCCG	CATCACAAGC	GGGTCTCTCT	CTAAGAATTT	600
	CCCGAACGTC	TCTCCGGTCA	ACTTGACACT	GCAGAGTCTT	CTGGTGCACT	GGCATCTTGG	660
	GCTGTGCAAA	CTGTGCCAGC	AACCGGCGAT	GGACAACACA	AACCGCTTGT	CCAAAANCNT	720
30	TCTCGCTGCG	TCTATCTTAC	CCGTGGTTTN	GTGNACTCTG	TGGCGATCAA	ANCCGGNTNG	780
	CNATTTTTGT	TTTATACTGA	TCCAGAATTC	ACCTTNTCNC	AAAACNNTTN	CCNGAAAAGA	840
	NCGNGTN						

1380UP

35	GATCTCGCCT	GTTGTGAGTG	ACGCCGAGTT	GCGCGAATTG	TAGCAGTGCG	AGAGGAACGT	60
	GCCGACGGTA	TCGTTTGCCA	GCGCGACAAC	GCGCACGCTG	CCCAACCCGA	CCGCGTCCAA	120
	CTGCTCCTGG	TACATCTTGA	CCACGTCTTT	GCCGATCGCA	TCCTTGATGT	TGAAGCCCTT	180
	CGTCCAGCGG	ATCAAAGTGC	CGCTCGATAG	CGATGTCTGC	GCCACGGGAT	ACGAGAACGT	240
	AAACCCGAGC	TTCACTTGGC	CGCCCTCGCT	CTGGAGCACT	TCAGAGTGGT	AGCGCTTGAC	300
40	AAACGCCATT	GTGCGCTTCG	CGATGAAGCC	GAACAACCTG	TCTGATGTTA	CGTCGTCGTC	360
	AAGGAGCTCC	TCGGGGATCT	TCGACTTCAA	CTGCTCCAGC	TTGAACGTGT	GATCACCGTT	420
	GAGACGCACC	GAGCACACCC	GGAAATTTCGT	GCCGCCAAGG	TCCGCCGCCA	AGAACGTGCC	480
	CTCCTCAGTG	CCATTGGGCC	TGCCCCATCAC	GTACGACGGG	ATCATCGGAA	GCCCCACGGTA	540
	CTCCCGTCCG	TCTCTCCGTT	CTTGAGACCT	GTTCATACA	TTGATGAAG	TACGCGGTCA	600
	ACTCGCGGAG	TTTGTCTCTC	GTCACCTCGA	AATCCTTACA	TATTTCTGTC	ACTGCTCTCT	660
45	GACTTTCCCG	CGTTGCGCTT	GTGCAAACTT	TCNAAAANAT	CCTGGTACTG	TAAANATTAG	720
	ACTTCGANAC	GTGGTTCGAG	TCTTTTCNNG	TTNCCTACTC	NCCNGCCNTG	TCNTANTATT	780
	TTGANGGCGN	TCCAATAAAA	AACCCTTTNG	GGGGTCNCAA	GNGACCTCCC	ACCCTCTTTT	840
	GTTTCCCCNT	CCCNNATGA					

1381RP

50	GATCATTATA	TTATAAAATA	TAATAAAGAA	TATATTTAAA	TAATAATAAT	AATATGAAAT	60
	ATTATATTAA	TTCTCCATTG	GAGCAATTTG	AGATTAGAGA	TTTATTAGGT	TTAACATCAC	120
	CAATAATAGA	TTTTAGTTTT	ATTAAATATTA	CTAATTTTGG	TTTATATCTT	ATAATCTTTT	180
55	TATTAGTAAT	TTTACTAATG	AATTTAATAA	CTAATAATTA	TAATAAATTA	GTAGGTTCTA	240

	ATTGATATTT	AAGTCAAGAA	ATAATTTATG	ATACTATTAT	AAATATAGTT	AAGACACAGA	300
	TTGGTGGTAA	AGTATGAGGT	TATTATTTTC	CATTAGTTTA	TACATTTTTT	ATTCTTATTT	360
	TTACTATAAA	TTTAATTAGT	ATAATTCCTT	ATTCATTTCG	TATAACTTCA	CATGTAGTAT	420
5	TTGTAGTATC	AATAAGTATA	ATTATTTGAT	TAGGTCTAAC	TATTATGGT	TTTTATACTC	480
	ATGGTTTAAA	ATTCTTTGGT	TTATTTTAC	CACTAGGTAC	ACCATTAATT	TTAGTCACCA	540
	TTATTAGTAT	CAATTGAATT	ATTATCATAT	TTTGCTAGAC	TTATTCATT	AGGTTTAAGA	600
	TTATCAGCTA	ATATTATAGC	TGGTCATTTA	TTAATTGTTA	TTTTAGGTGG	TTTATTACTT	660
	AATCTAAANC	CACAAATATT	TAACNTTTTN	TTAAGTTCNN	CCNATGAATG	CTATTTNAGT	720
	ATGTNTGTTA	GAATTTNTAT	CTTATACCNG	CTTANTNTGA	AGTNTNAATA	CNCCNTATNA	780
10	AACTATTTAT	TCCTTATTAA	ATTAACANTT	NAACNCCCNA	TTANTTTNTA	TNCTT	

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1381UP

	GATCATTGTC	CAATATTCCC	CACTGCTGTA	TCATATAGAT	ATTGATTATA	ATTTCTAAAT	60
	CAACGTGATT	GTTCTAAGTT	TAATTAACAA	TTATGAATTT	TTGGCTAGTT	ATTATTTTTT	120
5	AATTAACTAA	TACCTAAATC	ATTATAAGCT	TGACTTAAAA	CAAATAATTA	TTACATTATT	180
	CTTTATTTAT	TATTTAATAT	TTAGTTAAAT	TTTAAGTTCA	TTATTCTTAA	TTTTTACTCA	240
	CGAGTACACC	ACTTATTAAT	ACTATTAATT	AATAATATTA	ACGTTTGATT	CGCATGTGTA	300
	ATGTCCCTAG	TTAGCGCTTA	ATCTGAACCA	ACATCATGTT	CTCATTATTA	TTAACTATTT	360
	TTAATTATTT	TAAATAATTA	TTTAATACGA	AAGTTATAGG	ATTCTGAACCT	ATGAAATCAT	420
	AAAGATTTAT	AATAGCTCAA	ATATTACACT	TTAAACCACT	CAGTCAAACCT	TTCTTAATAT	480
10	ATATACCTTA	TATATGGTTT	GATAATTTAC	TTATAATATA	TAGTATATAA	TTTAATGATA	540
	AACCTCTTATC	ATTTAGGTGC	GTAGGGTTCA	CCCCCTATT	GCTAGTCAGC	AATATGATGT	600
	ACCTCCTAAA	TGATAAAGAA	GTATAATATA	TAAATATTAA	TATTAAAGTA	TTTAATGAAT	660
	ATTATTATTA	TTTATTTAAT	TATTATTTTT	ATTTAGTAAA	TAAATAAATA	TTTCCACTTA	720
	TTGAAATATA	GTTTCTTTNGA	TTAGAAATAA	GCNATNATAA	TGTNCCATTG	ACTATTAAAT	780
	ANTGTGCTCN	CNNGACTTCC	CTATTTNCCN	NNGANAANTC	NGAANATCAG	AANANAGATT	840
15	CCNANATNTT	TAATNNNCCC	CCA				

1382RP

	GATCTCACAC	GTGACTAAAA	TCACTAACAC	CACGTGACTT	CGTGCACGTG	GCATCGTCCC	60
20	ATTCTGTGCG	TCGCTAGCAT	TCTGCCCGCG	CATCTGTGTC	AGGCCACTGC	GCAGCTGACC	120
	ACGCCGTACC	ACGGCAGGCT	TCACGACAGA	CGGCAAGCTC	AATCGCTATC	TACGGTTTCA	180
	GGTGGAATTT	CTTACCGGCA	TCCGATTAAT	TGCTTTTTTG	GCTTCCTTTT	GCCCCCTTTT	240
	TTCCAGTGGG	TTGCTTCCTG	AAAACAGGGA	GCTAGCTTCC	CGTAGTACGT	AACAGTCGTA	300
	GAGGGTTAGG	CATCGCTGAG	CTCGAGATCC	GGTGATGCAA	TGTGCACAAC	CCTCGTCTGC	360
	GCAAAACGGG	CACGAAGATT	GAAAGTATCC	AGGAGTGCAG	CCCAGGGTCA	TGCGAGACAG	420
25	AATGGGCCAG	AAAAAGCGAA	AAAATGGACG	ACGCTTTTAT	ATATATATGT	AGCGAGGCCG	480
	GGCGTTCCCA	GAACGGGACC	CGACACAACCT	TGTTGTAGAA	TTTCTATCTG	CAAGGAATCA	540
	AATACAAAAT	GGAATCTAGA	TTGGGATGGC	TAACCTGTTT	GAACACGAC	ACTGGTCTCTG	600
	CATTGAGAAG	AACCTCCATCA	TCCGGACAAT	GGTCCTAAGA	CCAACCACCC	AGANACTTNG	660
	TGGANCTTAA	AAAGGNGGGT	TGAACATCCT	GAGAATGAAC	TTCTCGCNCG	GTCTTACAAT	720
	TNCCACCATC	GGTGNTCNAA	NACCCNNAAT	TCGAGATTNT	NCCNGTTAAC	NTTGGCCTTG	780
30	CTTTGAANCC	AAGTNCCTGA	ATNAAATGTN	CTTNTCGAAA	NTTANTACCN	TCCCTTACCC	840
	AAANC						

1382UP

35	GATCTATAAC	AGGTGCCAAG	TTGGCAGATT	TGTTTCAGGG	GCTCGACGAT	GTAGAGTCCA	60
	GTAGAAATGCT	CTGTAACCCC	AGAGCATACT	TTGCCGAAAA	GTCTTTATCT	GTTGAAATCA	120
	ACTGGGGTAT	CCGCTTTGAT	GCTGTCCCGG	AGGTTGATGC	CTTTCTTGAT	CGCCTTGTCC	180
	AGTATCTGGT	TGGTAAGCTC	AATGAGCTCC	GCATGACCAC	GTCCCATATT	GTTTTGAAAA	240
	TAGCACGCAG	AAGCAGGGAT	GCCCCCATCG	AACCCCCCAA	ATACTTGGGC	ATGGGTGACT	300
	GTGACAGTTA	TAGTAAATCG	TGCAGATTAG	GTCTTGCTAC	CAATATTCCCT	GGGGTTATAT	360
40	CTGCAGAGAT	AAAGGCAGCT	TTTCGCATGC	TATGCTGCCC	CGCAAAGGAA	CTGCGTGGTA	420
	TAGCCGTTCA	GTTTCTTAAA	CTGAAGGAGG	CATCCATTTT	TCAAATGCCC	CGTCAGCTCA	480
	GGTTTCCATT	TGGTACAATC	AGACCTTTAA	CAACTCCAAA	GAATCGTATC	ACAGCGTCGG	540
	TTACAGAATT	GCCACCTGTA	GTTTATAAAA	GGGCCACTCC	TATTAAGGAT	TTTTTTGACC	600
	GGCACAGAG	GACTCAGATT	CACCATCACC	TGATTCACTC	ACATGATGTC	TGCGTCAGCC	660
	TTGTGCGAGT	CATTCTGGT	GGATTACCTA	CGATCTTGCG	GAAAAATCCN	AAAAAACATT	720
45	GACNATCTNA	AACCAGACTT	CTTTNTTGCN	ATTCCCAAAA	AAATTGGGNN	GNGCCNGGT	780
	TNNATCCCAN	CATGCCCTTA	AAATTTAGAT	CTTGACCCT	ACTCCNANTT	GNTNCCCNAA	840
	AAAAAACTA	TCAATGTNTN	CT				

1384RP

50	GATCTGCATC	GCGTCCACCG	TGGACTGGGC	GGTCGTGGGC	GGTCACGGAA	AACCTCGGGG	60
	ACTCGGTGAT	GGTGCCGGCA	AGCGTCTCGT	AGCGGATGGG	CACGACCTTC	GCAAAGTAGG	120
	AAAAGAAGTG	GCTATGGCCG	TTCGGAACCT	CCATGGCGCG	GCCATTGAGC	GGCCCGGGGT	180
	TGCCGGCAAT	TTCGGGCCCCA	AAGGAGAGAC	TATGGATCAC	GTGGTTGAAG	GAGAGATGGG	240

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	GGTGTTCCTT	G TAGAAGGAA	TGGTGGTGGG	CGTGGCCCTT	GCCAACGTGC	GCAGAGCCCG	300
	GGGCGAAGTG	AATGTTCCCG	TGAACGCGGT	TGAGCTGCGC	GGTGCCAGCG	ACGCGGCATC	360
	CCTCGTTGAT	CTGCTCCTGC	AGGCGCTCCG	TGTAGCCCTC	GCGCTTGCAAC	TGCTCAAAGC	420
5	CTTTGCCATC	GAAAGTGGCC	CAGTTCATCT	CTGCGTACGC	CGCGCGCACC	TCCCCGCACG	480
	TCTGACAGCA	CACGCGCTCG	CTGCGCGGCA	GGTTCTCGTT	CTGGTCCCTGG	TGCGGTGCGC	540
	CATACACGGC	CACAGTAGTC	TTGGTCTGCT	G TAGACGGCA	ACGTCTCGCC	ACTCGGAATT	600
	CCTCCTTCCC	CACGTCCGTC	CNTGTTTGTC	CACCNPTTTT	CCTTGATCCT	CCTCCAAACNA	660
	ATTCACTGTG	CTCCCTGTTC	TCTNTANNTC	CATTTCAATC	TCCCCCGGAT	CTTGCAAACCT	720
	TATATCNAAC	CCCACTCCNC	TCTGCTGCCG	TCCTTCAANC	ACTGNGCGTC	TCCCTCCCCA	780
10	NTTCCCTCCT	ANCAANACN	CGTTCACAAC	ACCNCTATN	CCT		

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1384UP

	GATCACTTTG	TTTGTGTCTG	CACGATAAAT	GGCCTCGGTA	CAGAGTTTFA	CGAGTGTTC	60
5	TTGGCTGAGA	CCGGACAGGT	CAATCTCAGA	GTTTTTACTA	TTCATTAGTG	AGTAGATTGA	120
	CGCGTAGTTA	TTATCAAAGG	CCACCGGGGA	ATTGTTAAAG	AAGTTGGAAA	CAGATGATTT	180
	CGACATGGTA	TAGTTCTGTA	GCTTAATTAG	AACGGGCAGG	TCTGAGCTCT	CCGCGACGGG	240
	AGTACTGTTT	TGAATGGGTG	GCACAGCCAG	TGGCGGTTGG	GGCGTGACCA	TGCCAAGCTG	300
	TGCGCCCGCT	GTCAGGCCCG	CTGGTACTGG	AGCCGGCAGG	CTTATCGGCG	GGTCTGCTGG	360
	TGTCGGCGAT	TTGGAAATAC	GGTTGTTGCA	CGCTGCTAGG	TATTTTTCGC	GCTCCGCTGG	420
10	GCTCATCTTC	TTCTCGGTCA	AAGCAGGGTC	GAAGTTCAGA	ATACCCCTTAC	TCTTCGTCTC	480
	CTCTGCAATC	ATGTGCAACG	TTTGCGCGAT	CTTCCCCAGC	TGTGCGTGAT	AGGGCGCCAG	540
	GTCGCCCGAG	TTCCGGATCA	GCTGCGCTTT	CATGCCAAAG	TTAACGAAAT	TCTTGTAACA	600
	GCGTTCGACG	CAGCGCTTCC	CAAGCGGTAC	CGCAGCGCAA	ATCGTTTTC	TGCTGGTACT	660
	TGTTGTCNAT	ATTGAATCNA	ACAGGCCCCC	CAATAANCC	GTCCACGGG	CCCCGTTCCT	720
	GANNAAACCA	GCATCACACC	GCNAAAAAAC	GGGCCCCACN	CGTCGTCATC	NAACTTACCC	780
15	CTCCAGACTG	NNTATCCANN	GCATNCNCCT	TTTTTNTCCC	GTGTNTCTGA	AANTNCNAAG	840
	CCCCCACCT						

1385RP

20	GATCGACCTC	GTCATCATGG	GCAAGCAGGC	CACCGACAGC	GACAACAACA	ACACCGGGCA	60
	GATGCTGGCG	GGCCTTCTCA	ACTGGCCGCA	GGCCACCAAC	GCCGCGCGTG	TTGAGCTGGA	120
	CGCGACTGGC	ACGCGTGCGA	CCGTCAACGG	CGAGGTCGAG	GGCGGCGAGG	AGGTCGTCAG	180
	TGCCGCGCTG	CCACTCGTGG	TCACCACGGA	CCTGCGGCTC	AACACGCCGC	GCTACGTCAC	240
	GCTGCCCAAC	AAGATGAAGG	CGAAGAAGAA	GCCGATGGCG	AAGCTCAACC	TCGCCGCGTT	300
	CCCCGGGCTC	GACTCGCGCG	CCCGCCTCAA	TCTGCTGCGC	TCGAGGAGC	CGCCCGCGCG	360
25	CGCGCCGGGC	ACCGTCGTCTG	CGTCCGTGGA	CGAGCTGCTC	GCCAAACTCA	GGGAGGCCAA	420
	GGCCGTTTTAA	CACCTATATA	AACTAACAGC	CCCTATTTCC	TCCGCGGACG	CAGCGTCCCG	480
	CTCTCCAGCA	GCCCCGGCGG	CTGCTTGCGC	AGGTACGCT	GCTCGTACCA	CGCCTCCAC	540
	TCCCCGCCCT	GCGCCCGCGC	CTGCTGTACG	CTCTTCCAGC	ACGCGCCGGC	ACTCCTCGTC	600
	CCACGCCGCG	AGGTTGCTCC	CCCGGTGCT	GCCGCCGCGC	CTATCTTGCA	ACNCCGCCAG	660
	CTTGCAAGTT	CGCCCCCCCC	CCCCGCATGT	NNCCCNCCAA	CNCNTTTTFA	CACNGGATNT	720
30	TNCCNNTTTG	TTNTCCNTNN	NTTCNCNCCC	GTGGAANTGN	TTTGCCNTTG	CTTGANAATG	780
	CTANCCAACC	CCCCAATTGG	ATNGNGCCCC	CCCAAATNA	ACTTTCCACT	TTGCCGAGAC	840
	CCCGCCCTGT	NCCCTTNTTT	AA				

1385UP

35	GATCCTTGAG	GGCTGGTTCC	TGGGCTTCGA	GCCCGCGGCC	GAGGCCGAGC	TCGCGCGCGC	60
	GGCCGGGACC	TACGGCGCGG	CCGCGCTGCG	CGAGGTCAAC	GCGGCGCTCG	AGGACTACTC	120
	TGCGTGTCTG	TGGCGCGCGG	CTGGCGTGCC	CTCGGTGCGC	ATCGTGTTCG	ACGCGCAGGT	180
	TCGCGAGTGC	GTGGCCCGCT	GGCGCATCCA	GCAGGAGCAC	GAGCTGCGCG	AGCGCTGCGG	240
	CGCCGGCATG	ACCGACGCGC	AGGTGCACGC	ATTTCTGGAG	CGCTACCTGG	TGTGCTACGA	300
40	CGTCTACTAT	GCGCGTCTGG	TGCGCGAGGG	GCTCGGGAAC	CTGCACCGGC	TGACTGTGGG	360
	GCTGGACGGA	GACCGAAAAG	TTACGTATGT	TAGCCAGAAG	AATATGTAAT	GCCGAGTCTA	420
	TAGTTCCCTG	TCCGAGATGT	CCTCCCAGGG	GATGAGATAG	CGCGTCTGGT	GCGCCTTGTC	480
	GCGCGTGCGC	GCGGCGGGGC	CCGGCGGCGA	CGCGCGCTGG	CGCGGCGCCA	TGCTGGGCGG	540
	CGGCGTCGAC	GCGAGCACGC	TGCCGCGGAG	CTCGTCACGT	GGCGCGCCAG	GAAGGCCTCC	600
	GTCTGCGCCT	GGCGCGCGCT	CAACGCCTGC	AGTCGCGCGA	ACGCTGCCCA	NCACGTTCTG	660
45	CGCGNGTCC	ACTGCNCGGG	ACTTNTTAAA	CACCTCTGCT	TTCTTGGAA	CCTTGAACNA	720
	NCGCNGTTGC	GCTTTNCNAC	TNTNATGANC	CCCCCAAACC	CCTNTTTGNG	GGCTGCGGGC	780
	NCCCCGCCCC	NNNNCTCTCG	CCNGGTTNNG	TGTCTTTCAC	CCTNCCCCCT	TNCNTTAACC	840
	GTNTANNTTN	N					

1386RP

50	GATCGCACGT	CATTTTACCT	ACAGGCTGGG	CTTTTGAAGA	AGACGCCTGC	ATGGTACAAT	60
	GTCGTAGCCA	GGATCCCACC	TGTGACCAAG	TTCCGCCAGG	AACCGAAGCT	GCATGACCCA	120
	GTTAGCGGCA	AGTACAAGGG	CGAGCTGGAT	ATAATGACGG	ATAGATTAAA	CAGAAACACA	180
55	GAGACGTACA	AGACACGCGC	TGGGAGTTCC	GACCGGCAGA	CGGCCGCGT	GCACAAGCCT	240

	TCTAAGCTGC	GGTTTATCGA	GGACAAGCTG	CGGTGCTGT	TTTTCCAGCA	GCATCCCTGG	300
	GAGCTGTCCG	GGCCGAAGGT	GCTGGTGGAG	AACATGGGAA	ATGAGCAGTA	CGACTGGTCTG	360
	CGGATGTTGC	AGCTAGGCAA	GCCGCTTGAC	GGTGAGTCTG	TGGTGCAGCG	GACGCTGTAT	420
5	CTGCTGAAGT	CGGGCGCGCA	CCGGGAGATG	CTGGCGGCAT	ACGACCAGGC	GCGGTTTGAG	480
	TTCTATCGTC	TGAGGATGCA	GCAGGAGCTG	GAGGAGCAAA	TAGCGTACGA	GGAGGCCACG	540
	ATGGTTGGCG	CTGTGTTCAA	GACAACCGCT	GTGGAGCACG	GTCTGCAGCA	AGAGCAGAAG	600
	GTCTCGACA	GTGGAAAAGAA	GACTTTGTTG	CCGGGTTTGC	CCTGATTTTT	GCNAAAAAAA	660
	ACTCTACAAA	GCAGTCCNTG	GGCCNAACCC	ACCGAAGAAA	AAGAAGAACC	AGGACNNTGC	720
	CGAACCCNAA	GACNCCACCT	GTGNACTCCN	TTGCCAACTT	TGTTATAAAT	TCTTACNNTT	780
10	TTATTCCCTT	NGTACAATNC	NANNTACTGT	TNTGTGCCAT	CATGTGCCCC	AACAGGTTCC	840
	CCCCNTTGA	NAAANGC					

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1386UP

	GATCCATGCC	TCGTTATAAC	TGAGCAGAAG	TGTGCATGCG	AACAGAGGCG	TTTCCTTGTT	60
	CCTTGCCAGT	TCCCCCATTC	CCCAAGTTGC	ACTGCAAAAT	GTGAATCATT	GATGTCTTGT	120
5	CGTCGCCATC	GGTGCGCTGA	AAGATGCTGT	TCCGGTAGAC	CGCATTCTGT	CAAGCGGAAC	180
	TCTAGGCGGC	GCCGTGAGAG	TCCAGATGAT	GAACTCTGAAG	TTGAGGCCCA	GCACGTGTGC	240
	TTAAAAGATT	GTAATCGGGT	GCTGCTTTGT	GGTATCCACA	TGTGCAATTA	CAAATGCCAT	300
	GCAGGCAAT	GTCCTCCCTG	CTTAGAATCA	GATTCCAATG	ACCTTATCTG	TCCCTGTGGT	360
	AAGACAATCG	TACCAGCCCC	TGTCCGTTGT	GGAACAAAGC	TCCCTCGCTG	CACTCATCCA	420
	TGTCGAAACT	CGCTGCTGGA	TACTTGGCCC	TGCGGACACA	GTCCACCTTC	GCATAATTGT	480
10	CATCCCTTAG	ATGAACCTTG	CCCCCATGTA	CCATCACAGT	CAAGAAAAC	TGTCGCTGCG	540
	GTA AAAACGA	GATCAGGACA	TTCTGCTACA	ATGATGATTG	TCGTGTTTGA	GACCGTGTA	600
	GAAGCCATTG	CCTATTGCAA	TCACCTCTGC	CAATTNCTCG	TCATTCCGAT	GGCAATGCCA	660
	GCAAACTTGT	TAGCAAGCCT	GTGGTCNACC	ACCGAAAGCC	GCACNTGTTT	GTTAGGGAAA	720
	TGCTTGGCNT	NCGNATGCCT	GAATCCCTGT	NCNAAAAAAA	AANCNCCGTC	CGTTGTCCAT	780
15	CNCCACCAAT	NTGCTGATT	TGCTGGAAGA	GAANGTTCCG	ACACNCCCC	GTCTGNAAG	840
	AATGTGCAAT	CNNCGN					

1387RP

	GATCAACCAC	TCGTGTGCCCT	ATACATAGGA	ACCAAAAAGC	CTTCTGGCCT	GGTCCTCAAG	60
20	TAGTATTGTA	TAAGTTTGGA	ATCCTTGTTAC	GCGGTTGCCT	TCCGCGCACC	TTTCATATTT	120
	TCGGTAAAG	CCTCCACAAG	GTTCCCTATCT	TTATCCTTGA	AGTTGTCTCC	ACAGGACTCC	180
	CACAAGAAGC	CCCCAGCAAG	CTTCTTATCT	TTACCGTATT	CCTTCTTTAT	TTTCATTGAA	240
	TCCACATTGT	CGTAGACGAC	AAGAGTTTGA	GTATTAGGAT	CGTAGCTATA	TGCAGAGACC	300
	CAAAACATTGT	CAAACCTCTC	TGGGCGGTGA	GCTAGCGGCA	ATTGGTTGTA	TAGCCACATA	360
	CCCGGTTCCC	CTTCTGATCC	TCCGCCTACA	CCAGAATATT	TCTGGCCAAT	TAGTTGTTCA	420
25	CCATCGCCCC	GAACGTTGGT	GAAGCCACGG	CCATACGCTG	CCATGCCGAG	TGCAATTTTT	480
	CTTGGGCTGA	CCTTAAATTG	TTCCGTCATC	ATGAGTATCG	CATCATGTGC	ATTCAACTCA	540
	TCAAAGTTGT	CAATACCCAT	ATCTTCATAC	CGACGCTTAT	CTAGGTGCGA	TTGTACGGCG	600
	AATTCGTAGC	ATTGTACAAG	TTGCTATGGT	AGCCTGTTCC	CTCTGACCAT	GCACCGTGGT	660
	ATCGTATGTC	ATCATATCCN	CATGCTGAAA	ACTGTTCACT	CNCAACCGGA	AATGCAATNT	720
30	CTGAAGAAGC	NGGCTGCCAG	CTTNATTGAA	CCGTCTGTIN	TCCCCGGGCC	CNANATNTTT	780
	CCATCTCNNT	GTTNGCAGCG	GTNCTTTTNA	AAACTGGNTC	GNNCNCACCA		

1387UP

35	GATCACCACA	ACACAGAAGC	ACGCAACGCT	ACAGGACTTC	CCTGTTCTTT	TGCTTGACACA	60
	CGTCCAGCCC	AGAGGACGAT	TACACCGCCG	TCAGGGTTTC	CTAGTCTCCG	GCAGCACAGG	120
	CTCCTTATCA	CATTTTGCAT	TTTCACGCTC	GCACATGTCA	CAATAACCA	AATACATCCC	180
	CAAAAGCACG	CTTTTCTCT	GCCCGTTCTT	TCTCATCGCG	TCAGACTTCG	TACTCGCTAT	240
	GAGCGGCAAG	GGCACGCGCG	CAGGGAGCTC	ATCTACAGGC	ATCGGGTCCG	GGCCACGCG	300
	TCTGCAGCGG	CTGCGGCAGC	TGCTAGCGCA	TCGAGATCCG	GCAAGAGGCC	CGTCAGGTGC	360
40	ACTTACGAGC	ATCGAAGAGT	TTACTAGGAG	ATGACAGCGC	CTGCACGTCC	CTGAGGCTAG	420
	CCTCCCAGGG	CGGGCGGGCC	GCTTGGTATA	GGGTTTACAT	AGCAGAATGG	CACGAATATT	480
	TGCTCTAGGC	AACGTCAGGG	ACGGAAGGGG	CTTCATGCGA	AATCCTTGCA	CCGCCGGGTG	540
	CCGTATATAA	GGTGACGCAG	CTGCGCAGCT	GGGGCGGGCA	TGCTAACCA	GACAGGATGT	600
	GGAGTGGTGC	GCGATTATAT	ACGACAAGCC	GGCGTGACG	GTCGGTGAC	AGGCAGGACA	660
	CCTGGCGGAA	ATCCCAANTC	GTTGAACAAG	GGAAGTGGTG	CAGCNGGCGC	AATCTACAAG	720
45	AGTTGTTGAN	GGCGGCCGTC	ACATTTGCCG	TTNCACTGAC	CCTGTCNCGA	TCCANGAAGA	780
	GGNCTGGCAT	NTCCCANAA	CTCCCCACAG	CTGTNGACTT	GAATCCNGC	CTACCTTGAT	840
	TTGCANNCCA	GAAAAAN					

1388RP

50	GATCCACCCA	AATTCGTCTG	TGCTGGACCA	GCTTTCCCAA	CAGTCTCCGA	GGTAATCAGG	60
	CTACTGCGTT	CCTATTTTAT	GGCCTTCAAT	AACTCTTTAT	ACTTAATTTA	GACGTTAACT	120
	TCCACATCCG	GTATTTTTC	CATCTGAGAT	ACTGGCAAGC	ACGGCTAGCT	TTAGGAGAAC	180
	TGTATCCCAT	GACTTGTGGA	CAGGGGCTTT	ATGAAAAAAC	GCCTGTCCGT	GTAAGGATAT	240
55	AGAAAACATA	CTGAGATGGC	TTTTGTGTCT	GAATCAGACA	TTCTTAGGTT	ACATTTTGGG	300

	CCTGGCTGTA	CAAGGCACTA	ATATGAAGAT	AGAGTTATAG	CGCGTGAGAA	GGAAAGGCTC	360
	CACTGGGTGT	TGCATGGGAT	TTCAGGGTCG	TGATAATAAT	GCCAGGCAAT	CATATAGATT	420
	ACCACGAGGG	AAACATCAAC	GCTATTTAAG	GTCATCCTTT	TTGACATCTG	TCGAGGAAGT	480
5	GCGAATAGCT	GTAAGCGCAA	CTCTACAAGA	TGCCGCCGTC	TCCAAGACCA	ATGCTAAGCA	540
	CCACAACCTCC	AATGACCTGA	TTACTGGGGA	GCAATTCCGT	CCTCGAAAGT	TGGCACGTCG	600
	ACTGACTGGT	TTTCTGCCCC	GAGATCAATC	NATTGATCCN	TNATCCCTTA	CATCNCCGGA	660
	CTTTNGAAAA	CCCAAATTAA	AATTCCGNAN	NCCAAAATCC	NGGGATTNC	CACCCTTGAA	720
	CTACCCACNC	GGCCCTATTA	TTTTATAATT	GCNNACAANN	CCCGATCCCC	CGNNAACCGN	780
	GTAAANCGAA	AACCCCCCGG	NNTTCGGACC	NNCNTTTTNC	T		

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1388UP

	GATCCAGCGG	CTTGGTAGCA	TGCTGGCCGA	GGAGTTCGGC	TGTTCTGGTT	TTGCGCGCTG	60
5	AGGCTCACTT	ATAGGTGCCG	ACTTCGATTG	CCACTTGTGG	CCAAGACTTG	CTTCTTTTACA	120
	TAGCTAAATG	CCACTGATCA	TATAGACTGC	TTATTCTGTC	TTAACTGCCT	CAACGTTCCA	180
	TACCATCTCC	GCGTACTCCT	CTATGCAGCG	GTCACCTGCTG	AAGAAGCCAA	CGTTGGCGAC	240
	GGACAGGATC	GACTTCTGGA	GCCAGGCCCG	GCGGTCGCCG	TGGTAGACGC	GGTCAACGAG	300
	AGCCTGGCAG	GCTATGTAGG	AGTCGAAATC	GTCGCTCACC	AGGTAGTAGT	CCCCGTGCTG	360
	GGCGACGGAG	TCCACCAGAG	GTTGGAATTC	ACGCAGGTCC	TGAGGGGAAA	ATGCGCCCGA	420
10	GGAGAGCGTC	TCCAGTACGC	GAGCAATGGG	GGCTGGCAAC	TCTTGGCGGT	GATACCGGTG	480
	CCGGTAGCGG	AGGTCTTCGA	CATCTTCTGC	GAGATTACCA	AAGAGGAAGA	TGTTGTCTTC	540
	GCCGATCTCG	CGTGTGATCT	CGACGTTGGC	GCCATCGACG	GTGCCGATAA	TGAGACACCA	600
	TTCATAACGA	ACTTCATGTT	NGAATTCCCN	GAACCTCATT	ACCCGCTGTC	AAANGTGCTC	660
	ACTAATCGGA	ACNNGGANAA	TATTGCGCCG	GAANATGTAT	CCCGAATGAA	ACCCCTCAGA	720
	AATACNATCC	CTCTCTTANA	CACNGCCCN	TTATTACCTA	TATNGCTGCC	NTTTTACCCG	780
15	GCCCTTNCCC	CNAAAANACC	TTGAGAAGNC	CCCCNTNTN	GGNNCCCGTN	CCNTTTTA	

1389RP

	GATCTTCTTT	TTGAAGCCCA	CAGACACAAA	CTGTGATGGA	GTGCTGGAGA	CGCCAGCTTT	60
20	GGACGACTTC	CTTTTCTTAG	ACCGGCGAGT	CTTTTTCCTA	GGTGTATGTC	TTTCCTTGGT	120
	GCCGTGTTTG	CTCACAATTG	CCTTTAGCTC	TTCGACGACA	ATCTTTGTGG	ATAACCTTTG	180
	GCCATCTAAT	GAGCCCTTTT	CAATTGCACC	TTTGATCCAA	CATCTTCCAT	TCCAAACGAT	240
	ATTGGTCACC	ACCAACATAT	TAGTGGAGTT	ATCTTTCCCC	CATGATAAGT	AGAATCTGGT	300
	ATGTATTTCA	AACGCACCTC	CCGAGGGTAC	ATCTGGCGTC	TTCTGTTATCT	GCTCCACTAC	360
	TATGTGAGAG	TTACACATCG	AATGTAGGAT	TTTTCCTGG	ATCAAGCATC	CGCTCTGCTT	420
25	AGGACCAACA	GGATTGTTTT	ATGGCTTGAT	ATATTTCATAT	TCCCTCACAT	TATCTGAGAA	480
	TTCAGACGGT	ATAGCTGAAA	TATTATGATT	AGCCTGTTTT	TCTAATATCT	TTTGCAAGTA	540
	GGACGTGTCC	TCACCAAATA	ACAGCTTGTA	CACGACACCC	AATGGTGTCTG	CGATGGAATC	600
	GAATCATCAA	CAATAACATC	TCCTGGTTGC	TCGTATAGGT	GTTCTTCGTC	GGAGGANGCT	660
	ACTAGGGCGA	TATTNGTAAA	TATTAAAGANA	CANTTGTGTA	CTGTTNGAAC	TGCCNCGTAC	720
	TTGATTNTAT	AAAACCTCNN	AATGTTACCG	TTCNACNCTT	TNGAGANTTN	ANCCCTCNAA	780
30	TCCNTTCCNC	GTGANTTTTNC	ATCTCCCCCTC	NTCTATACTG	ATACNT		

1389UP

	GATCCGTGCG	ACTTTCAACA	TTGTGAACGA	CTTCACACCG	GAAGAAGAGG	CTGCCATCCG	60
35	CCGTGAGAAC	GAGTGGGCCG	AGGACCGCTA	GCCACGGCCC	GCCTCTATGT	ACCATAAGTA	120
	GCCGATATCT	ACCGCTGCCG	GCGCGGGCCC	GCGCCGCGCC	ACCGTTGCGT	GCCAGGAGCT	180
	GGTCTGCCGA	CTATCCGTGC	CAACGTACGA	AACGATGCTG	GTTTATGTGG	TCCGCCCGCC	240
	GCTGGTTACA	ATTAAACGCC	CCAGGTCATC	GGTAGACGGA	GCTAGCTACT	CGTTGTCTCTG	300
	TAAGTGAGTT	AACGCACAAG	GGGAACTATT	CGTGTGGTCA	GGCAGCAGAG	ACGCTGCAGG	360
	ACATACTACG	AGTTATTTCT	CATAACTAAA	CATTTTGTGA	ACCTTTGTGTG	CGGGGGCCAG	420
40	GTCGTTTTCG	AAAAGGCGGC	GGAATAAACA	GGGAGGAGAG	GTAGATGCTC	TTCTCAGGCA	480
	GAGGCTAGCA	AGGATGGCAG	AACAGCGGAA	GCGGTGCGGG	TCGCTCAGAG	AGAGCGCGCG	540
	GGCACTTTTC	AAGAAGCATA	CGGGGGAAGG	GGCGGCGGAA	GGGGCGCGCG	ACAGTGCCAA	600
	AGACGGTTAC	GACCCGAATG	GGGAACCGCG	GANCGGGCCC	GAGCGGTNAT	TTCAAGTTGG	660
	CGCNGGGAAG	GCCCCGANTT	NAAACCGGTG	TNTAGACAAA	AACTTGTCCTA	GTTTCNACCC	720
	GTNGTTTACC	AANNNNNNAA	TCTCCNCCCC	NGGGTNGGTG	GCCNGAACCC	CCNCTGGCTT	780
45	ACGGGGNCCA	CATCTCTCCC	CCCCCTCCCA	TTAAANACCC	CGNCNCCTTT	TNTCTGNCC	

1390RP

	GATCAAGTAA	TCAATCAGTT	AATAATATTA	AGAATATAAT	ATGTAGACAT	TTAGTCTAGT	60
50	CTATTAAATTA	TTAATTATTT	TGTAATTTGT	TGTTAATTTG	TTGATATTTT	ATTGATTTTG	120
	TTGACATTTT	GTTGACATGT	TGATATGTTA	TAAAATATAA	TTTAATATTA	TTTATATATA	180
	TTATTATTTAT	TATCTAGTCA	TAGACTCATA	TAAATATGAA	TATATTCAT	TATTAATTTG	240
	TTAGGATAAA	CATAAATTA	TATAATAACT	TATTTTTAAG	TTCAATAAAT	ATGTTTCATAT	300
	TTATATGATT	AATTCATAAC	GTATTCGATA	TAAATATCTC	ATACCTTTT	ATGAATTAAT	360
55	TAAGCGGTAT	TAAATTATTC	TGATTGGATT	AAGTTATTAT	TTAATTTATG	TTCTTAACAA	420

	TTAATTGATT	CCATAAATAT	CGATATTTAT	TATTATTTAT	TAAAATATTA	ATGATAATAT	480
	TGTAATACTT	CAATTATTTT	ATCAAAATGGC	AAGTAATCTA	TTAATCNTTT	AATACGATTG	540
	ATAAGAAAGA	AAAGAATATC	ATCTATCGTA	TAATATATTT	CAAGTATGAC	CTCTTCAATA	600
5	TAATTAGAAG	TTTAAACTTG	TAGAGAATTA	AGAAATTAAT	ATGAGTCTTA	CATTAAACCT	660
	GATATGAACC	TTTAATCTAC	TTATTTGTTT	AACCGTTGAA	GAGAGAATAG	TTAATCTNAG	720
	TATNACTTAT	ATATTGATAC					

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1390UP

	GATCAAACTA	AGAAACCTAA	TAAACTAATA	GAACCTATTA	GATAAAATTAT	AGAAATTTCA	60
	CCAAATACAG	GTTTTTTAGA	ATAAGTTGAT	ACAATATGTG	ATATTATACC	AAATAGTGGT	120
5	ACAAATTATA	TATATACTTC	AGGATGACCA	AAGAATCAAA	ATAAATGTTG	ATATAAAATA	180
	GGATCACCAC	CACCTTGATC	TTCAAAGAAT	GATGTATTAA	AATTTCTATC	TATTAATAAT	240
	ATAGTAACAC	CAGCTGATAA	TACTGGTAAT	GATATTAATA	ATATAACAGC	AGTAATTAAA	300
	ATTGATCATA	GAAATAAAGG	TATTTTATGT	AAAGTTATAC	CATTAGTTCT	TATATTTAAA	360
	GCTGTAACAA	TAAATTTAAT	AAGTCCCTAAT	AATGAAGAAA	TAGTAGTTAA	ATGTAAAGAG	420
	AAAATAGCTA	AATCAACAGA	AGCACCAGAA	TGTGATTGAA	TAGAAGATAA	AGGAGGATAA	480
10	ACAGTTCAAC	CAGTACCTAG	ACCAGATTCA	ACTATAGTAG	ATGTTAATAA	ACAAATTAAT	540
	AGTGGTGGTA	ATAGTCAAAA	TGAAATATTA	TTTAATCTAG	CAAAATGATAT	ATCAGAAGCA	600
	CCAATTATTA	ATGGTAAATA	ATAATTACCA	AAACCACCAA	TTAATATAGG	TATTACTAAA	660
	AAGAATACTA	TTAAAATAAG	ATGTCCAGTA	ACTAATACAT	TAAATAATTG	ATTTTGACCT	720
	TGTAAATATT	GTTGACAGGT	GCTGATAATT	CTATTCTAAT	AATAAATGAT	ATA	

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1391RP

	GATCTTTTTG	CTCCAGGTTA	TTCCCTTCTT	GGACACATTT	ACGAAGTGTA	TTTTCAAGAC	60
	CTGACTCGCG	CATTTAGGTG	TTACGTTAAA	GCCTTTGAGC	TAGATGCCGG	CGACCTCGTC	120
20	GCTGCTAAAT	ACATGGTGGA	ATACTATAGT	GACCTGTGCA	ATTGGCAGGC	GGCGGCCAAC	180
	ATCTGTGACC	GTGTAATCAA	GAATGATATG	CATCTCAATT	CCGTCAACTG	GCCGTACAGA	240
	GTTCTGGGTG	TTTATTATTT	GGAGCTTCAA	CAGGAGGCTG	AATCGATCGA	ATGGTTCCAA	300
	TCTGCTTTAC	GGATTGATTC	GTCTGATGTT	GAGGCATGGA	TAGGCCTGGG	ACAGGCGTAC	360
	GCCGCATGTG	GCAGAAATCG	AGCCTCGATC	AAGGTTTTTG	AAAGGGCATT	AGAGCTGTCT	420
	CCAGAACATA	AGTATGCAGG	GTTATTCTCTG	GCTATATCAT	TATGCCAGCT	TTCAGAATTC	480
25	GAAAAAAGTC	TCGAGGCCCT	GAGAAAACCT	GTGAATAAGT	ATCCACAAGA	AGCTATCTTC	540
	AAAGAAAGAC	TAAGTGCAAC	GTTGGTGGAG	CATGCTTTGC	AGTTCTTTCGA	CCAAGGTTAC	600
	CTGATAAAAG	CGGCAACTTG	CGCTGCTGAG	GTGATATCGA	TCATAGAAGG	CATTGTATCT	660
	GAACAGGTAG	AATATACAAC	CAATATGTGG	ATTACTTTAT	CAAAGGCTTT	GAATATTTTT	720
	ATTTCCACGC	GTTCTCAGTT	CGACAACCTT				

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1391UP

	GATCGCCGCG	CAGATTGTGC	AGAACGTGCT	TGCACTAGGG	TCTCTTACGA	CAAAGGACTA	60
	CATGCAGTCG	TTGGCTTCCG	ATGTTTTCTGT	GAATGATGTG	GCGTCCATGT	TTGTGAAGCT	120
35	GGTTGAACCTA	GGCTTTCTGG	TCCCCTTTCT	CAACGTGCAC	TACATGCCAC	TGGCCGATCT	180
	ATGGGATGTG	CTCTACAAGA	AGGAATACAA	TGCTATTCCA	AAGAATTCTGA	CGTTGTGAGA	240
	TGCCAAGAAA	CGTGCAGAAA	CAAAGGCGAA	GACGAAGGTT	CAGTTCAATA	CGTTGCTGAA	300
	GAATGTGCAA	ATGAGCAACG	TACTAATGAC	TGATATGCAG	ACTTCAATGA	GACGTGTCCA	360
	AGACAATCTT	CCTCTAACAT	TTAACTTCGG	CCGCTACATG	AAGCACCGGC	GTTCTCGGCA	420
	GCTTGATACAG	TTTGCACGTT	CCCGTGTGGG	GAGCGTACCA	GCCATGATCT	ATAAGGTGGC	480
40	ACTGAAGATA	ACCGAACAAT	GTGCCCCTGC	GCTTTTCAGAT	CCGCTATGTG	AGACAGGCCT	540
	AATGCAGGAA	CTTGAGGAGC	AACTGGCTAT	TCAGGAAGAT	ATGGCGCTAG	ACGATGAGAA	600
	GCTACCGGGC	GTTACATTCA	ATGCGGTGGA	CATATCCAGA	AACTTACCAA	ATAACATGGA	660
	CCTACGTGGC	ACACTGACTT	CTATGCCAAG	AAGATCACC	GAACGTTGCA	CGCACCAAGG	720
	TCAATCCCAT	AAGCGGNTGA	AGGCTGAAGA	TGGGATGGCT	GTAGCAG		

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1392RP

	GATCCCCACC	ACCGTCAACC	GCGTGCCCGG	CACCACCCGG	TTCGTGAGGT	ACCGGTCGCA	60
	CGTCAGCAGC	AGGTTGCGCG	GCATCTCGCC	GATCGGTACG	GACTCCGGCA	CCTCCTGGAG	120
50	CTTCAGGAAC	TGCTGGTCTA	CGAAGCGCGA	GCTCTCGTGA	ACGATCATGT	ACGGGTCTCT	180
	GCCGCAAGGG	TTCCCCCGCG	CGCTGCCATC	GTCATTTCGAG	TGGTCTGCCA	GGCAGCCCGG	240
	CGGTAGCGCC	ACGTTGCTCC	CCGCAAGCGA	CTGGAAGTTG	TTGAGGTCCA	GCGCCGTCTG	300
	GTGCCGGCAG	TTGCCGGCACA	TCAGCGCAAC	GTGAGTCGCA	CGTGACGTCA	GCACCGACGT	360
	TGACACCACG	ATCCCGCTCA	GCCGCACCAG	CCGCGAAACG	CTCTGTGAGT	CCAGCTGCCG	420
	CAGCGCCGTC	TCAGCGCCCG	CGCTCTGCAG	CTCCACCTGC	ACCGCCGGCA	GCGCGCCCGC	480
	GTCCTCCGCC	CGGAGCCGCG	CCATCCGCGG	CGCTATTTCC	GTCACCGCCT	GCTCAAAGAG	540
55	GGGCACCGTC	TCCACAGGCT	CGTCGCGCAC	AGTTTGTACA	GCCTCTCGTT	GTACCAATCA	600

EP 0 866 129 A2

GATGCTCCGT	GTTGACGCGC	AGCGCGTACG	CCGCACCAGC	AGGTTGTTGC	GCAACTGCTC	660
GCGATATAAN	NAACCGCGCG	TCNAAOGAAA	CTCCNGCACA	AANCNCCNGA	AGAGCGCACC	720
NCCTCCGANC	GGTCGTTGCG	CGCCCGCCTC	CTC			

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1393RP

	GATCACGGAT	TGCCCAAGT	ANTGCGCAAC	AGTCGTCAAN	TCTGACATAT	CTCTTGCAAA	60
5	TGCTAGCCTC	TGGGGGCTTG	AACTAACCAT	TACTTCCTAAT	ACCTGGCTAG	CTGCCTCCAA	120
	ATCCGGATCC	AAAAAAGCAA	TATTTATACA	TAACATATACA	CGAAATCTCA	GTTTCATCGCT	180
	AGCTAGCTCA	TCGTATCCGG	GACTGGGAGA	GGAACCTCAAT	GCTGTGGAAC	CCTTCGAATA	240
	TGGCAGCGTC	GGCGATGTTG	ACCAAGGACT	CGCCTGGGCC	AAACATGCGG	ATGCCACNTA	300
	GGTGGGTGTC	TTTGCCGTTT	TCGTGGTTAG	TCACGACCTC	GATGCGCAAA	AACTGGCACT	360
	TGAGCAGGCC	GTCGGAGGGT	CGGTTGTCCT	CGAAGGTGAA	CTTGACCCAC	CCATTGACTT	420
10	GCGGACTTCT	AGGGTCTTGT	AGTAGGTTGC	GTCGGAAGGG	CTGTGGCCAG	CGTATATGCG	480
	GAGCGTCTCC	NANGTG TAGG	ACTCATCGAC	GAAGAGCGAG	AAGTACATGG	CAAGCTGGAT	540
	GATGTCAACG	CGCTTGCTGA	AGAAGACGTC	TATGGTGTGT	GGCTGGGAGC	CGTCGCTTTG	600
	CCANAANGTG	GCGGGGTTAT	CATCCNAAGG	CGTTTTCCAT	GGGGTANCCG	GCCTTGAANG	660
	AAGAAGGCTT	CCANTAGGCC	AACNAAGTGA	TATCNACTTA	CCCTGGTTCT	CCAATGTTTG	720
	CAAGCCCNCC	TGTTATTTNG	NCCAGAAAAG	AC			

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1393UP

	GATCCAGGAT	ATCATGCCCA	AAATCCTTGA	AGCCGCTGCA	AAGCGCCTCG	TGCAAATCAA	60
20	GAATCTGCAC	ACGGCAGAGA	ACTTACTCTT	CGTATTTTGC	TACCTGACTT	CTATTGATGC	120
	GCGGCAGACA	GTGGACTTTT	TTTCATCAAC	GATCATCGAT	GAAGGCGGCC	GTACCGCCTC	180
	CCAGGCTATC	GTTCCGCGTT	GGCTAGAAGC	ATTTCGAGGT	CTCCGCGGAG	AACATAAAAT	240
	CAAAGAGAAC	ATTTTATCCC	TTTCCAAGCT	TTTCTTCCTT	GAGGATCCCC	GTATAGCGGG	300
	CATCACGGTC	AATGGGGATC	TGATTCCCCA	CGATGGCGAC	ATCATAATCA	CCCCTCCAT	360
	GGCCAAGAAA	ATGCCTGATA	AGTACACGCA	GATCTCCCGC	GCCGAGAAGA	TAGTCAAGCT	420
25	CTTTGTTGCA	GAAGTAGCCT	TCCAGCAAAA	CCAGCCTGAC	CCTGGCCGTT	ACCCTAAAGA	480
	CGGGTCTGGC	CCTGCTGACC	CACATGACTC	CGAGGGAGAC	TCAGCTGATG	AAGACTGGGA	540
	GGATGTCGAT	GACATCCTTG	ACTACGAAAA	ATTGCGGGAG	TACGCGGATG	ATAGTGACAT	600
	TGACGACACG	GTGACAGCCT	TTTATTACACA	AGTAACATCG	AAGAGGATGT	AACCACTCTG	660
	CTTACTCAAT	TCTTCAAGGA	AGCGGTGACC	AGAAATGCCT	CTGGCTTCCA	GGAGATCTAT	720
	AGCAGGCTCA	CTGAACAAGA	GAAGAAGAGC	TATCTGCATG	CATGGTATAG	GAT	

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1394RP

	GATCTCGACG	ATTACCGCGT	ATGATTATAT	CCCAGCAACA	TGGGCACACG	CCGCACACAC	60
35	AGACATGATA	CTGGTCCGTG	ATTCCGTGGC	AATGTCCACG	CTGGGTCTATG	TGTCCACGGT	120
	GGACCTGGAT	CTGCAGGAGT	TCCAATACCA	CGTCCGGTCG	GTGTGTACAG	CACCAGGCTC	180
	GTCCTTTATA	ATTGCAGATA	TGCCATATGG	TAGCTTTGAG	CGAANCATTG	AGCAGGGAGT	240
	AGAGACGGCG	ATCTCGCTTA	TGAAGACATC	CAGCAGGGTG	GGTGCTGTTA	AGCTCGAGGT	300
	TGGCGCGGAA	GAAGAACGACT	ACTGTCTTGA	GCTTGCCGCA	GAGCTCTGCA	GGCGCGGGAT	360
	CCCAGTAATG	GGCCATGTCT	GGCTGACCCC	GCAGCGCATG	CATGCATTGG	GCGGGTACAA	420
	GGTTACCGGC	GCAAAGGACT	TGGGCCAGGC	GCTGGCGGCG	TACCACCGGG	CTAAAGATCT	480
40	GCAGGCTGCA	GGCTGTTTTT	CCATCGTCAT	CGAATGCATT	CCAACTAAAC	TAGCCGGTAT	540
	CATAACCGAG	AAACTCAGTA	TACCTACTAT	TGGCATTGGC	GCGGGCCCCC	AGACAAGCGG	600
	GCAGGTGCTC	GTACAGTCGG	ATCTGCTGGG	CATGTTGCCA	NGGAAGGCC	CAAAATTTTG	660
	TGCNGAATTC	CCCGGACTTC	CNCNGGGACG	CCATANGTTC	CTTGTGCCCC	CTATGTTGAA	720
	AANGTGCCCA	NGGCNTCTTC	CCNAAAGTNG	GGGCA			

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1394UP

	GATCGAAGTC	CATGAAGGAG	CGTAATGGCC	TCGTGGAGCT	GCACCGCACT	GGGTGCGTAC	60
50	ATAGCGGGAT	GTAGGAATGC	GGGGATAACG	ATTTCGGAAA	GCTGACTGGG	CTGCGCCTCT	120
	AGCTTCAGCT	CAAGCTGGCG	CAGCAGCGTT	GCTATAGGCT	GTTGTGGCGA	CAAGGTGCGAC	180
	ACTTCAGTTG	CAGTAGGAGC	AGGTAGCATA	CGACTAGTTA	TATCGAAGTC	GTGCCGGTAA	240
	TGAGGATAG	GGTCAATTTC	TGGCTCCGAG	CGCTGGCTAG	CACCACAATT	ATCACCAGT	300
	CCATACCTCC	ATGCAATTCT	GAGATCTTGG	CTACGTGCGA	CCGGTTTTGC	ACCCCTCCG	360
	GCTAAGTTTT	GCACCGTGAC	CTTCGATTCC	TCCTGGGAAA	TGCGAGATTT	CTTTACCTCT	420
	TTACGTGTGC	CCTGGAATAT	CCCCGGCAGC	TCCTTCGCAT	ACTGAGTGTT	GAGCGTGATG	480
	ACCACCACAT	GCGTATTCCC	TCCCGCTGT	GCGCCGCGAC	TTTCCGCGCG	GTTATGTGCT	540
55	GCTCCCTGCG	CTGCAAAAGAG	CTTTCCAAGT	ACCGATGCAA	AGTCTGTACC	CCCTTGTTCT	600

TCCACCAGAA	GCATCTGGCC	CATTGGCAAG	CCCATATGCC	CTAGGAGCCG	ATCCATATCT	660
GCACAACCCG	TGGATGTTGT	GGGATGCGAA	GTAACCGGCG	ACGGACGCAA	GCCCGGATGC	720
GACTGCCTGC	CNCCTCACTG	TTGGATGCCA	ACCTCTCCAC	GCCTCTNGAA	ANC	

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1396RP

	GATCAATCAT	TCTAGAGCTG	GAGCAAAGGA	TACCTATAGG	CTTGCCCTCGT	CATTGGCCCC	60
5	TTTCATTATT	ACATACCCAT	CGTTCCACAG	CGTGTCACAT	TCTGCCATTG	GAGAGCAGGA	120
	CACCCAAGTT	TTCAAACAGA	ACAGCCTCGT	TCTCTTGTA	AAAGTTGGAC	CTTCTAACGG	180
	TGTCCTCATC	GAAGCCGTCG	TCGCCACTGA	GGACCTTGAG	GGCGTTGGAG	GTGGCTTTGA	240
	TGTAGTCGTT	GAGCATAGGA	ACCGGGTCGT	CGGCAAGCTT	ATTGAAAAAT	TGGTACTTGT	300
	TGGCTGTGGA	GCTGANCTGC	AGGGGAGAGC	AGTTGGGTCT	TCTTTTTCGAG	GTTTGCCAGC	360
	TGCGGCTCGA	GCTGGCTGGT	GACTGTGTTG	AATTCTGTGA	GCAGCAGCAT	CCCCTGTTGG	420
10	GCAAGGGAGT	TTTGGGCGGA	CGCCGGTTTC	GGATCCCTTA	CCGGGACACG	TGGCACGCGG	480
	ATGTCGAAGA	CCAGTTCGCC	GTAGGTGGAG	GTCTTGTCGA	CCTGGATGGT	GATGTTGATG	540
	CGCACGGGGG	GGATGGGCTT	GATGTGGGCG	TTGACACCTG	GGGCAGCTCG	GTGAGCTTGA	600
	GGTACTTGCG	AGGCTCTGCG	GCGGGCCGCA	GGAACCTAAC	GATCATGGCG	TCCACCTTGA	660
	TGACAACTTG	TCGTGTTCTT	GCGTGCTCTT	GGCGTTGCCG	CTNGGGTCTG	CGACNAAGAA	720
	CTCTTGAACA	GGATTTCTTG	TNAACC				

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1396UP

	GATCGGTTAC	TTAGAGGGAG	TGCAAGACCT	GGCCTGACTT	ATCTTAGGGT	TATTAGCTAT	60
	GACGGGTGTG	TTCGGATTTT	TGTCCAAGGG	TTTAGATGCC	ATCAACTCCC	TGAATTCGCA	120
20	CTACTTTGCG	TTGTGCGGTG	ATGAACAGAA	GGCCATGACT	TTGCTTGAGC	GTATTAGATA	180
	CTACAATTGG	ACGTTTGAGG	GGATCTGTGT	GGTCTGCTC	GGGCTGATGT	ATGCCGTGTA	240
	CGTGGCGGGG	ACCAAACTAA	ACGAGCGGCG	CTCGGACCGT	CTGTTGGAAC	AGCTGAACAA	300
	GTTCTTCTGG	GAGGAGCTGC	AGTTTGCGCG	CGTGGGTMTT	TCGTCCCGGG	ACAAGGGACG	360
	GCTGCCATAC	ATCAGCGATC	GGAAATGGCAC	ATGGTGCAAC	GCATTGCGTA	CGGGGCGCAC	420
	GTGTGTGGAG	CATATTGTGG	TGAAGGCTCA	CTACCCGCGG	CGCTTCAACC	CTGTGGGGCT	480
25	GCTGGTGGAG	AAGCTGCTGG	GGATGTTCTT	CCCGCAGGTG	GTGGACCGCA	CGGCGATGAG	540
	TTTGTGCAGG	TGACGGGTGAC	CCCCAACGGG	AAGTGGACGA	AGGACGAGAA	CAGCGCGGTT	600
	CAGGCGACGG	AGGACGGGCT	GAACCGGTTT	CGGTTTCATG	CGTCGATCGT	CCACAAGAAC	660
	GGGATGAACG	ACTCGCGCGG	CAAGAACTAC	TTCTCTCTCT	TGACTCACNC	GTCCGANGGC	720
	GAAACTCTCC	CATGGAANTA	CTCTTCATGT	CCGANAACAA	CCACTGAACA	AC	

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1397RP

	GATCCCATTG	TTCTACAGCA	AATATTACAC	GGCCGGCGGA	CCCTCGACAA	TGCAGAATTC	60
	GATGCATACA	CAAAACATAT	TACTACAAAG	CTTTCAAAAG	GTGTCTCTCC	CACAGACGCA	120
35	TTTCTAGGCG	CACTCAAGGT	TTACATCTCT	AATTGCAAGT	TGAAACGTTT	ACGCTTGCAG	180
	AAAGCACACG	TTATACTTCT	TGATAAAATT	GCGATATPCA	TCAATACAAA	TGTGGTCCAT	240
	GTGTCTGTG	AATCGATACA	TACGATACTG	AAAAGTTTAG	CTGAATATTT	TATTGATGCC	300
	AAGGAATATA	AGCGACTCAA	CAACGTCGTC	AATATTTCAT	TCAACGCATA	TGTGATGTAT	360
	AAGCATGAAA	GCCTTATACG	ACTTGACGCA	GATCTCGAAT	TATTTCTCTT	TATGTCGGTC	420
	AAACAGGACT	GGTCAATGTT	TACCAAGTTC	GAGAAGTTTA	TTTCTGTGCG	TTCAGGAGAC	480
	ATCTCAGTAT	CGCTCTTTGA	ACAGTGTTC	AATGTTTATG	TTATGTTTCG	GGATCCCTCA	540
40	TTGGCCGGCC	TATGGGATGT	CTGCTTGAAC	AAGTCTGTTG	AGTGTTCCTA	GAAATTGGGA	600
	CTAACTAGTT	ACACAGACTT	TAAGGCATCG	TCCGAGCCAA	TGCTAGTGTG	GGTATACAGT	660
	GGATTTGTTT	CTGATATTTT	TACAATACCT	TATAATGGCT	GGGCTCCGCT	ATCGAAAATG	720
	TTATTTCATG	CATTAAATGG	GGTCTATAAA	TTG			

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1397UP

	GATCTGAAAT	ATTGCTCACC	CCCACCGTGA	CCTATGTAGA	TGAACGTGCT	GGAGTTCGTT	60
	ATCATTCTGA	CGAATTCATC	CTCTTCTGGC	TTTGAGCCAG	TTACTATCCG	TGTTGAACCC	120
	AAGTCGCAAC	AAAGTCTGGT	AAAATGTTCT	TTAAAGCGCA	GTTCAGTCCT	GGTCAAGTCC	180
50	CCATGCCGGT	TTAAACAAT	GGAAAGTCTG	CTGTCTAGGT	TAATCTTTGG	AGAGATCTCT	240
	CCTCTGAATT	TAGTTAGTAG	CTCGTGAAGG	AAATTTATGG	ATGGTACGCG	GCTCACAGAA	300
	GCATCGGAAA	ATATACTGAG	AGATTCCCAT	GGAAACCAAC	TGCATTCCGA	GCTTATTACC	360
	AGAAACGTGT	GTCCTAACCT	TGGCGCCTCT	GGTGCCTTGG	CATGATAGTC	GTGAATTAGT	420
	TCTCTCAAGT	GAATATGTAT	GAGATGAACG	TCAATCTCAT	CATAGGCATT	TTCTTCGCCA	480
	TGGAAAAGCA	ATATGTCAAA	GATGAAGTAT	ATCAAGTCCT	CCATGAATTC	CACCTTCTTT	540
55	TCGTGAGGAA	GGGCATCCCA	ATCCACCTTT	AAAAATAACT	CTAATATGAA	ATCGTCCACC	600

TGTTAGAACA	TAGACGGGTT	TCCATACTGT	CTTCTTGTTG	GAAGATTGT	TGTAAAACCT	660
TTGAAATCCT	AATTTGAATA	NTGCAAAATG	GTTTTATCCA	ACTGTTTTTG	GNTGAAGAAA	720
CCGCNGAATC	CCATATCCAG	ATCTCATGCG	GGGCTCNAT	CTACATC		

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1398UP

	GATCGCTCTT	CTTTGAAAGA	ATATGTAGGC	ACCCTCTCCT	ATCTTGCGCC	GGAATTGGTT	60
	CGCTGCAAAG	ATATGAAGAC	GATGACACCT	GCAGAAGCAG	AAAGAATCCC	AGAGTACGGT	120
5	GCAGCAGTCG	ACATATGGGC	TCTTGGTGTC	CTCTGCTACT	TCATGATGAG	TGGCTATATG	180
	CCGTTTCGATT	GCGAAGACGA	TGCCGAAACT	AGTGAAGG	TCTTGAAGGG	TGACTATTAC	240
	GTTGACGAGG	AAGCTCGTGC	CAACGCCAAT	GAGAGCTATA	ACAGCTGCTG	GAACCTTCATG	300
	CAGCGCTGCT	TTACGATGGA	TGATAATATC	CGGCCGCGCG	CACACGAACT	CATGGGCCAC	360
	GCATTTCATGC	GGGAATACTT	CCAATCGGCT	GCGGCCAATG	ACTTCGCATC	TATCCCGCTA	420
10	CTCGAGAGAT	CAAGATCCTC	GAACCTCCCTG	CACCACTTAG	CGCCGCCATC	ACGCGCACCG	480
	TTTATCTCGT	CTGGCGTGCC	GGTTATTAAAC	GAGCGCCCTG	TGCCACGCTG	TGGCTCGCGT	540
	GAGCGCAATT	TGGATAAGTT	GCGGGATACT	TTGCGGAAGA	CCTTTCCCTC	ACTTCGCTTG	600
	AACCTATGCG	CTTTGTGTGCT	CAAGCGAATA	CTCCTAATCC	TAATAAGAAG	AACTCTACTT	660
	TTGTTCTTGA	GCCAGCTCCT	CCCACGGGGA	GTCTAATGAA	TGGGTGTTTC	ACGTACACACC	720
	GGAAAGTAAT	CCAACCTCAA	TACGCCAGTC	CTTTCGCGCA	GAAGCTCCGG	CCAA	

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1399RP

	GATCATTACT	CGCAGAAACT	GAGATGTTAG	GGGGACCAA	CTCTTTTCTT	TGATGAGATA	60
	CGGGAGGATG	CCCTCGGAGA	ACCAGAACAA	TGCAGCAAAA	GGCACGAAGA	ATGCCAACGA	120
20	GAAAAGCACG	CATCGCTGCA	TATGCAGTCC	CACCCCATAG	TAGTTCCCTG	CGCCATATGC	180
	CTGGGGGCGAG	AGTGTATCTA	AGCTTGTGTA	AATACCCTCN	AATATTGCGA	AAGTGATATT	240
	GGTGGTTCATG	GAAGCCAGGG	AAACCGCTGC	CAACTCATTG	TTTCCCAGGT	GACCCACAAC	300
	TAATGCACAT	ACAACCGGAA	ACATCTGCTC	AAGCAGAAAT	GTAATATGA	GCGGCACGGA	360
	GTAACACAGA	AGCACCAGAC	TCTCGGACTT	CACGGTGGCT	GGTTCGTCGT	CGAGATCCTC	420
	GGACCCTCGG	AACGCGCTGG	AGGGGCCGCG	CTTGCTGCCA	ATGGAGTAGT	AAGACAGCTT	480
25	TGGGGGCCGT	AGAACACGCA	CTTCTGCCTT	GTCCGACGGC	AGTTGCTGCT	TAACCCGATG	540
	CATGAAGTGA	GTGTAGTGCA	CCATGTCTGG	CGCGGCGCCC	TCCACATCGA	CGGCCACGAT	600
	GTCCTCGGCG	CTGCCGTTAA	CAGTCGAGTA	CCGCCGTTCCG	TGCTCCTCCA	ATATCCAGTC	660
	TACATTCACT	GCAGAGGACG	GCCCCGCTCA	CTCGCAAGCG	TCGACGGCAG	CGAGACTGTC	720
	CGCGACAGCT	CTCCTCCGTC	AAGCACGCCC	TCCTCC			

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1399UP

	GATCTTGTAC	GACGGCCGCG	GAAGAATCGG	TGCCATCGTT	TCCAACAGAC	AGTTCCAGTT	60
	TGACGGCCCA	CCACCACAGG	CTGGCTCCAT	CTACGCCAAG	GGTTGGGCCC	TAACCGAGGA	120
	GGGCAACTTG	GCCCTAGGTG	ACAGCGACGT	CTTCTACCAN	TGCTGTGTCG	GCAACTTCTA	180
35	CAACCTATAT	GACCAGAACA	TCCGACCACA	ATGCTCTCCA	ATTAAGCTCC	AGGCAATCAA	240
	ATTGGTCGAC	AATGCTGAA	CAGCCACAAA	GGTATATAGT	GCATATATTG	TATTAGTTAA	300
	ACTAGGAATT	TTTGTGGCA	GCTAGACTGC	CCTACGTGGA	TTTCTCGTTG	CGGATCCTGG	360
	GCTGCCGCTG	GCGCTGACGC	ACAAGAGCAA	CTGCACAACT	ACTGGCGTAC	CGCATGCCTC	420
	CTTGTGCATT	TTTGCCGCGG	TGGACGTCGC	TGACGTCAGC	GTGGCACGTG	ATCATAATAT	480
	GTCCCGGGCC	AGGCCCTTAT	TGTGGCGGAC	AGGAATGCAT	GCGGAGGTGC	AAAATGGTGC	540
40	AAAATGGTGC	CCGATGCAAC	TCTAGGCCCG	AGCTGAAACA	AGATTACCTG	GGCAGCCTAA	600
	ATTTGCAGCG	GCTGCCCTGGC	AGCCCCACATG	TGTATTGTGC	TTTTACAGTT	CTTGCTGCGG	660
	CTGTCCAATA	CAGCCGATCG	CGACTTTGCT	GCGCACGGGC	CACTAGGCCT	GCGCGACAAA	720
	AACTGCAGGC	GCGCCGGCGT	GAATGGCGCC	GGACGATGTG	CTGCCGCGGA	ATTCC	

1400RP

	GATCCTGTCA	AATATGGCCA	ATACCAAGCA	GCCGCGTGTT	GTAGAGCATG	TGGTTGAACT	60
	CAAACCCCTCA	AGCAGCCGGG	TTTGTGGACTG	TGCACAGGAG	ATATTGTCTC	CATTTCCACA	120
	GTCCAAGAAC	AAGCCCAGGC	CGGGGGACTG	GAATTGTCCC	TCTTGTGGTT	TTTCTAACTT	180
	CCAACGGGCG	ATTGCATGCT	TCCGGTGCTC	CTTCCCAGCC	ACTAGTGCAG	TGACGGTTCAG	240
50	CAAGTGTAC	AAGCCACAGC	AGCAACGCCA	TTATCAGAAC	CCACACCACG	TCCCATCGAA	300
	ACAACAGGTG	CAGCACCCGC	AGATTACAGA	CCAAGACACA	CAGCAGCATT	CTCAACATTT	360
	CAACATCCAG	CAGATGCCGC	AGCAACTCCA	AATGCAACAG	CAAGCGCACG	GTACCGTTCA	420
	AGGGGGCAGT	AGCATGCAGC	AGTACAAGCA	CAGGCCTCAG	CACGGCTTAC	AGGCGTATCT	480
	TGGCTGCTAC	CAACAGCAGC	AGGCGAAGTC	ACAGCAGCAG	TACCAGATGA	ATCAGCAACA	540
	GGTGCAGATG	ATCGCTGGCG	ACGCCAGAGA	CGGTATAACC	GGTACAACAA	AATGGTGCAG	600

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EP 0 866 129 A2

GGCAACGGGC	AGAACGGTAA	TTCTTGACG	GAAATGGCTC	CCTGGGCAGT	AGCAACGTGC
CCTTCAGAGC	TGGCGACTGG	AAGTGCTTGA	ACTGTTCTTA	CCATAATTTT	GCCAAGAATA
TTGTTTGTCT	GCGTTGTGGT	AATCCAAAGA	CGGCCAT		

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1400UP

	GATCGGCGGG	TACTTCAGGT	CATTCTCCTC	CACCACCACC	ACCAGCTGCC	CGGGCCCGCG	60
5	CTCATACAGC	TGGTACGCCA	CGCGAACATG	TCGCTCCGCC	TGCGGCACAT	CCGCTTCGTA	120
	GAACCTGATCC	GCAGCCACCA	GCCGCGTCCG	GCACCTCCCG	CCGCCGGCTT	GCCTCAGCGT	180
	CCCCACTAGC	TGCGCGACCG	GTGTGAGCTG	CACCATCTCA	GGGGGCATCA	GCCAGCTCAG	240
	CGTCGATGGC	ACCACCAGTG	CGGCCGAGTA	CCGCTCGCCG	AGCTTCCCGC	TGAACTCGAC	300
	CTGCGGCTCG	GCCCCCGCA	GAAGCGAATG	CGGGTCCATA	GGGCCGAGGC	AGTCCAGTTG	360
	GTGTCTGGGA	AGACGCTCAG	ATTGCCATTG	TTTGAACGTG	CCACAGTTAG	AACTTGCACT	420
10	ATGCTACCTC	CGCGGCGCCT	GCGCGACCCC	ATAGTCACAT	ACTATCATCC	TCACACAAC	480
	CAGTACTTGC	TGCGAGTCCC	AACTCAAGCT	AACGAGTACC	AGACTTGGTT	TTGGCTGTTG	540
	CTGTATGCAT	TCCAATGGTT	TGTATAATCG	AAAAATTGTT	CAGTTGCTCA	GCACATCTCA	600
	TACAAGCAGG	AACAAGAGCG	AGTCGCGAGC	CAAAGACCTC	TTAGGCATTA	GTATCGGTAG	660
	CTAGGATGTC	GGCAGAACAG	TTGCGACAAG	TACACGCGAG	TGCAGGGCGA	ATTGGAGGAG	720
	CTGGTGGTGA	CAGACAGAAG	CTGGAGACGC	AGCTGCAGGA	GAACAAGATC	GTGAA	

1401RP

	GATCTTGTTG	TTGGCAATAC	CCTGTCTTAC	GTGAAAAGA	AGTGTCTCTG	AGGTGTCCAT	60
20	CAACAAAAAT	ATTACCACTT	ACAACACCCA	CCCGAACTCT	ATTGGCCAAA	ACATCCAACA	120
	ATGTCTGCTT	ACCTGCACCT	GAATAACCCA	TCAGAGCAGT	CAAAGTCCCA	GGCTTTACCC	180
	AACCATCCAC	GTTGGTTAGG	ATCCTCCTGG	TTTCATTCTT	AATCTGTATA	TCATAGCAGA	240
	CATCTCGCCA	GTGGAATAATG	CTATCAGAAC	CAATTCCTCTG	AATAAGTTTCG	CGGGATTGGT	300
	CACTTCCTAT	AGTACTAGAT	TCCTTTCTCTG	GTGCATTACC	AAATTCTATG	TCGCAGTTGA	360
	TGGCCTTTTT	ATTTTGCCTT	TTTATTTTCT	TCAAAGTTGA	CCTTAGGAAT	ACAGCCATTT	420
	CACCTTTTTG	CATCCCACTT	TTATTATACT	CAATTAAGAT	CAGATAAACA	CCTAAGAAGA	480
25	AAAATGCATA	AGCAAGAACG	ATCCCCCAAT	TCATCCACTT	GTTTTTGGTG	TTGTAACCAT	540
	AAGCAAACCTC	TATGTAACGG	GTCCCATTTA	CAAAGCTCTG	ACCAGGAACT	GCTCCACCG	600
	ACAAGCAGAC	TTTATTTCGAA	ATAGGGAATC	CCTCATAGAA	ACTACCATCG	GGTACCATTTC	660
	GAGAACATTC	GAATATGCGT	CCGTCAAATT	CATTGCAAC	CATGGCTTCC	ATGATGCGTG	720
	CGA						

1401UP

	GATCTGCTGA	GATTAAGCCT	TCGTTGTCTG	ATTTGTTTTC	TATTTGGAAG	TCTGCAGGAG	60
	CAGGCTTTGA	AATAGAGTTC	TTATGTTATT	TAACGTCCGG	GTAACGAGTA	TACAAGCATA	120
35	TGTTTATGCG	TATGCTAGTT	ATATGCTTTG	AAGAGGTGGT	CTGCAGCTGG	CGGTCTATTT	180
	TATTTTATTT	TTTCATTTCA	CTAAGACTTT	ACATTTTPTT	TTTAAATTAT	TTTTTTTGCG	240
	CTAAGACTGT	GAACAGCGAT	TTTAGAAAAA	AGCGAAAAAG	TTCAGGAGGC	CTCAGCTACA	300
	TGATATCCCA	GGCCTTGTAT	TTGTGAGACT	GCACCTCCCG	GCTAGGTTGT	GACCAAGAGT	360
	TGACGTGCGG	CGGCGTGCGG	ATTGCAGGGC	TTACAGTGT	GGTTAATTTA	ACAATTTATA	420
	GAGAAATAGAG	ATGCCCGAGC	TTAATCAACT	GTCCGGCGCG	CCAAATTTCGA	TTTTTTGGAG	480
	TTTGTGATT	TTACAGCAG	ACGAGAAAGC	AGGACAGGCG	GCGCGCGCCA	GGCAGTCCCC	540
40	CCTGCAGGCG	TGAGCGGACA	CAGAGAGAAA	ATACAGGAAG	ATGAATACTG	ATAATCTACA	600
	GATTTCAATTG	ATATCTCAAT	GATCCGCTGA	TTATCAATGA	AAGTACCCAA	TGATCCATGA	660
	AGCCAGTAGA	TGTTAGTATA	TTTTATTAAA	TATATGCACC	TTTGTATATC	AATCTCTGTT	720

1402RP

	GATCAGGAGC	CCATCAAGGC	GCCTAAAAAT	CGCATCCCCG	CTGTCCGTTT	TCCCCGACTAC	60
	GCCGCTGTTG	CTTGAAATAC	AATTACTGCT	GTAGTTCCCTC	CTGTGATGCT	GGTTGAAATG	120
50	TTGCGGCGCG	AAAGGGTCTG	CCTGCTGAAA	GGAGCTGAAA	GGTGGTGACG	TGGTTCCGGG	180
	ACTACTAGCG	TCTGCAACCG	TCTTTGAGCC	CAAAACACGG	AGGCCGATTA	CATTTCCCGTC	240
	AGCCGGCCCG	AGGGTAGAAG	ACCTCCCCCTG	ATGGGAGTTC	ATGCTCTTAC	TGCGGGTGTG	300
	GTAATAGTAC	TCACCAACCAC	TGCTCGACGA	AAGCGGAGCA	GGGGGTAGCG	CTGCCATCTG	360
	TTGTTCCCTC	CTGCGACGTG	CTTCTAACTG	TGCCAAACGC	AGCTGTGCCT	GTTGCTCCTG	420
	GTGCGCGTCC	ACCTTGGCCA	AGAGCTCCGG	ATCATCATCG	AACATCTCCA	GCACCTCCAA	480
	TTTCGCCCTT	AAGCCACGTG	ACTCGGCTTC	CAGGTCGTCC	ATTTCTCGAT	GCTTGATCAT	540
55	GACCTGCAGA	TGGAGCTGCT	CCAGAACTCTC	GCGCTTCGCT	ATCTCGTATT	TTATCCGCTC	600

CGTCTCCTCG CTCTCACGCC CCAGCGGCCC CTCCTCCGCA CGCAGCCCGC TGTATTGTC
GTCGCCCAGG GAAAGCTCGT GCGGCGACTT CGGTGTGCGC ACCTGGTAAT ATGCCGGCC

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1402UP

	GATCAAGTTA	TCGTTGATCA	AAGCGTCAAT	ACCCCTTTTCT	CTAAGCATGT	GCCAGGTTTC	60
	CTTCGCGGCG	CGTAGGTATG	GTTTCCCGTA	CAACGCAATG	AAGCAGTAGG	CATAGTGGTT	120
5	GAAGTACTCT	GCCATCCATT	CAAAGACACC	AACAACGGCA	TCCAAGATTA	ACCACAAGCA	180
	CTGCATCCAC	CCACTGTCCG	ATATCCCAGG	AATAATCCCA	TTGCGAAGCA	GCTGAATAAT	240
	CTGCCGCAGT	AGTTGAATCA	GAGACACAAT	CAGCGAGCCA	AAGCAAATGG	ACCCAAAGGA	300
	AGTGGTCAAC	GCTCTCTTTA	ATGAGCCAAA	AGCTGGCCAA	CGTGGCATGC	CTTGGTCCGA	360
	CTTCGAAAAA	TAGTACCAGC	AGCCGTAGAT	GCCCGCGATG	GTGCAATGAA	TCACATTCCT	420
	GATGACCTCA	GAAATGTAGA	ATCCACAGAA	GAAAACGAGT	ACCAAATATC	CAATTAACCT	480
10	TCCACGTGAG	CAAGAGCCAC	CAGATACATC	GCAGCCACCA	TTCTCGCTCT	TCGGGTCCATA	540
	CTTTATGTAG	GTCGCAACCA	ACACTACAGA	GAATATGACA	GAGAACGCAG	CCGACACAAT	600
	GGTACCTAAT	AATGACACAA	GCCACGTCTG	TGGATGTTTC	TTCTAATCTG	ACATGACCGT	660
	ACGCAAGACA	GCGACACTAA	ATGGAATCCT	TGAGCGCATT	AACCAAGTAGC	ACACCGCCGT	720
	CAGAAT						

1403RP

	GATCCGTTCC	TTGAGAAGCA	CCTAAAGCCT	GAACCTCTGG	CAGAAGCGAT	CAAGGGAACC	60
	TCTTGGGAGG	GTAAAGTTAG	TATTAACCTG	GTAGACGGAT	TCGACCACTC	GTATTACTTC	120
20	GTCAGCACGT	TCGTGCCGGA	ACACGCAAAG	TACCATGCAG	AAAAGTTGGG	TCTAGTTTGA	180
	GATTTGACGT	TGCGCCTGTT	AATTGGTATA	TACTTACATA	TTTAGTCATA	TGACGGCTTC	240
	AAGTACTCTG	ATTCTGCATT	ATAAGTGCAG	CCGAATGCCA	GCCTCCGGCA	GTAATGGCAA	300
	CGCAAACTGA	ATTTGCCGGT	AGTTCAACCT	TGGCCGGTTG	CAGCACGCGT	ATGCTCCGAG	360
	CAGACTCAAA	CGTCGCTATT	TGGCGGGTAT	CTACAGCCTC	GTCGGGATCT	CCCTGCCCAA	420
	GACAGCCACA	GATATCACTC	TCCAGCCCCC	AGGAGTAGAG	TTACACCTTG	TCGGTTAGAG	480
25	CTAGGTTGTG	GTAGTCTCCC	GCAGATACAG	CAATAAACTT	CTGGCCTTGT	TCCAAATTCA	540
	TCTTCATGAA	TGAGTCCCTG	ACGATATCAC	CATTATTCAC	CTTCAGGGTG	TATGTGCTAT	600
	TCTCGGTACA	TAAAACCAAGT	GTCATGCAAG	ATGCCCTCAAT	CTTCGTTTAA	CCGTCCATCA	660
	AATGGCAAAT	CAACGGTTTT	TGAAACGCCA	TGAGTGTATA	TCCACAGTTT	GCGCCCATTG	720
	TTAGTAATGT	A					

1403UP

	GATCTCAATA	TCAACCAACT	TGTGACGTCG	CTTAAAAACAC	CATATGCGGA	GGACATTATG	60
	TCCATCACCG	TGTACAAGGA	CAATGTTTTT	GCCACGCACA	AGCAGGGCAT	TACGCGGTTT	120
35	CACCAAGGGA	ACGTGAACCT	CTGGAATGCT	CACCAGGGAC	TCGTCTTGAG	TAGCGAAATA	180
	TTGCGCAAGA	GCTGTACCAG	TAATCGTATA	GATCGGATGG	TTACTGGCGG	AAATGATGGG	240
	TCATTAGCGT	TGTGGAATAT	TAACGAATGG	CTGAACGGTA	CAGCGTCCCC	GGGTGGATCA	300
	GCCCCGACCG	AAGAACACTC	GCTTCCCTCT	GCGGAGCGCC	GAAATTCTTG	GACCGAGTAT	360
	CAACAAATCC	AGTTAGATAA	CGATCACATG	ATTGCAACAC	TGCGGGAATT	CATTAGTTAC	420
	CAGACTGTTT	CCCAACTCCC	AGAGCCCCAA	AATATCATCG	ATTTCGCGTAG	GTGTGCGAAC	480
40	TTCTTGCAAA	ATCTCTTCAC	TAAGCTCGGT	GCTAACCAAT	GTGGGCTTAT	ACCTGTTCAGT	540
	ACAGGCAGCA	ACCCGGTGGT	TCTCGCGCAG	TTCAAGGGCA	ATGCAGCCGC	GCCCAAAACGC	600
	ATACTATGGT	ATGGCCACTA	CGATGTGATA	TCCGCGGACC	ACCGTCGCAG	TGGGACAAACG	660
	ACCCCTTCACG	CTCACTTGCG	AAAATGGGTA	TCTTAAGGGA	AGAGGCGTGT	TGATAAC	

1404RP

	GATCTGCAAC	GTTACTGATT	ATCCTGTAAG	CCCTCTTTTG	GGTTAAACAC	TCCTGTGAGT	60
	TAACAGTCGT	GTTGAAGATA	GAAAATAAAG	CAGTGTATGA	TGATGCTGGA	ACAACCCTGG	120
	ACATAACCAC	CACAAGATCT	AGAAGTGTGG	CACTCATTTT	TGGCTGGCCC	TTACAGGTTT	180
	GGCTAGACGC	CTCCTTATCC	ATGGCATCTT	TTAGTAATGC	GCATACGTTA	TCAAACGTGT	240
50	TAGACAGGTT	TTCCGCAGAA	GTAATTTTCA	AGTATGCCTC	GATGGTTTCC	AAAAATAGC	300
	TCCGAGCGTT	GGGTGACAGT	TGCGTGTAGA	CATTGAAAAG	AACGGCCAAC	ATATTGGGCG	360
	ATTTCTGGGA	GAGGTATTCT	ATGTTTTTCT	CCGCTTCTGT	CGGCGGGAAT	TGCTGTCCCA	420
	TAATAATGTC	GACCTATATC	GCACCATCTC	TGTATAGAAG	ATTACTTGTG	ACCAAGACCT	480
	TCAATCCATT	GCAATATGAC	GTACGCAGTT	CAATTCTGGA	ATAAAGTAGG	GACGCTAACT	540
	CTGCAGCAAA	CTCATCCGTG	AATACATCGT	TTAGATCTTT	TGGAAGAACG	CAGAACTGAG	600
55	GGAAGGTAGA	CCACAATTGG	TCAACAACAG	TCTGAAGTAA	TGTGCACTGG	ATAGACTCCT	660

TATCCAGTTT CTCAATGGTG GACTCGAAAT GACGAATGGT AGGAATAAAT

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1404UP

	GATCTTCAGC	AAGATCAGCA	CCACTTGACG	CACTACAAGA	AGTACCGGCA	CTGGCGGTGG	60
5	CAGGCCAAGC	GCAGGCTGGC	CGGCTGCGAG	TCAGGAAAAG	TCGGAGCAGG	TCGTACAGGA	120
	GCCCCAAAAC	GCCGAGCCGC	TGGCGAAGCT	GGGCGACGCG	CTGACGGTGA	CGGCGCTGAC	180
	GGGCAAGATG	AGCTACTACC	GGCAGCTCCA	GGGAAGCGTG	AGCTCGTTGC	TCAGTTCTGT	240
	GTCGCAACTA	ACGACGTCCA	CCCGGGCGCC	AGAATGCGAC	TTCACTGAGC	AGTTTCATCAC	300
	CTTACTCGTG	AACACCTACC	ACGAGATGTG	TCTGGATGCA	ACCGTCACAC	CGTTCGACAA	360
	GACTAACCCG	CCATCTGCTT	TTCTCAACAA	GGTAGCGCGT	GCTGCGGTGG	AGCGTTCTGA	420
10	GCAGCAGAGC	ATCGCCATCG	GACGTCCGCG	CGATAAATGG	TTGTTGACCT	GCACGCGGAA	480
	GCGGCTTCTA	CAGGAAATAA	AGCGGGAGAC	CGAGGACGTT	CCACAGGGGT	CCGTGCGCTC	540
	GGTGGCCTGT	TCCATGAACC	ACGGCACCCCT	ACAGCGCGAT	CTAAGCTCCG	CTTTTGCAGA	600
	GGAGGGCGAT	TTCTTCTACT	GGGATCCGGA	CTTCCAACCTG	TTCCAAGGCA	TCACGGCAAA	660
	ACTTCTAACC	GACACTGGAG	ACATCTCGGG	CAAAAATACC	CCATGTCCTT	GGATC	

1405RP

	GATCTTTCAT	ACTTTCGGGT	TCGTGCTATA	TAACCTAAGAT	TGGACAGAAC	TGCAAGGGCC	60
	ACAGAGGAAG	AGCTGCTGCA	TTGCACATTA	GGCAGGAACA	GCGAATGTCT	ACAAATGCAC	120
20	ACTACACACT	ACCGCTCTCA	GCCGATCCCA	ATCTCAGATG	CGCACAGCAA	GGGACCCAGT	180
	TCCTTGCCCA	TGCCGCTGTA	CTCGCAGCGG	GGCGCAGATG	GGCTGCTAAC	CATTAATGCG	240
	AGCGCTGTGG	GCTCGCCTGT	GGGCCCCCAG	CCGGTGATAC	CTCCACTCAT	GCACCAGGTG	300
	GCGGTGCGCA	AGCACGCTCA	TATCATGCCA	GGCTCGTACG	CGCTGCGACA	GAGCTCGCCC	360
	CAGGTACCGG	CGATTATGGG	CGAGTTAGCG	ATGCTGAAGA	AGTCGATATT	CCAGTCGCTG	420
	AACGGCGAGT	TGACGACGGA	GGAATACAAC	AGCATCTACC	AACATTTGAG	TCAACTGCTG	480
25	GCGTCCCTCC	CACCGCCCGT	CGAGCCATCT	GCAGCGCAGC	CCCAGCTGCG	ACTGCCGTCG	540
	ATATCTCAAA	TTATGCCGGG	AACAGAGCCC	CAGGAAGTCC	AACGTACCTT	CATCATAGCA	600
	TCCTCCGAGT	CACAGCAGGG	CCAGCCGTAC	ATCTCGCCGC	CGTTAAGCTC	GACAATGTCT	660
	ACGCACCCGC	TTTCACCGGG	CATGTCGGTA	GCCAAACCGA	ACTACTCCGT	GAGCACCAAG	720
	AAGAATGTT						

1405UP

	GATCCAAATA	ACACCACGGT	TTTCATCGGC	GGGTTGTCTT	CGCTCGTGAC	TGAGGATGAG	60
	CTACGGGCTT	ACTTCCAGCC	ATTCCGACAG	ATAGTCTACG	TGAAAATCCC	GGTCGGCAAA	120
35	GGATGCGGCT	TTGTCCAGTA	CGTGGATCGC	AGTTCCGGCAG	AGAACCGCAT	CGCCAAGATG	180
	CAAGGATTTT	CAATTGGTAA	TTTCGAGGGT	CGGCTCTCAT	GGGGCAGGAG	CGCAAAGCAA	240
	ACAGCCGCTA	TGCAGCAGGC	GTTTGCCATA	GCACTACAGC	AGCAGCAGCA	GCAGCAGCAG	300
	CAGCAGCAGC	AAGCCCCGCC	GCAGCATTTCC	CAGCAACATC	AGTATCAGCA	TCAACAGCAT	360
	CAACAGCAGC	CTCAACATGT	CATTTCCTGCA	CAGCCGTTGC	TGCAGCAGCA	ATTGCAACTA	420
	CAATTTCCCT	ATCAGCATTA	ACCTGCCATG	CCGCAGGCCCT	ACGGTTACAC	ATTGGACTCG	480
40	TTGAGCGGCA	CCGGTTTCGAA	ACATGTTCCA	ATGCAGGGTT	TTCTTTCCGG	TAATATCGGC	540
	TTCCAACCTT	CTACGGCAAT	TGATAGCTCT	CCAGCAACGA	CCTTGCTTCC	CAACCTTTCT	600
	TCGTGGACT	ACTCTGGGTT	TCCACCTTCC	ACGTCAGCGT	TCACTTTTCA	CCCACGAAC	660
	CTTAGGCAC	AGCTTTCACA	ACATCGCCTA	GATTCTCAAC	AATGGCAGCG	TGTCC	

1406RP

	GATCTCCTTC	CAGTGACGCT	GATGCACAAC	TGCGGACCTC	AGCCCGCGTG	CCTCAGTGGA	60
	CCACAGTTGA	CATTTTCTCA	GTTAGCGCTC	GTTTAGCTTA	GCTATACGAG	GGATGGCACC	120
	ACTTAGGCGC	TGCTGCGGAA	CCAGATACGA	TGAAGCCGCC	CAAATTCGAT	AGAATGCTGC	180
50	CTCGCTGAGC	CGCCGTCATA	GGGAAACGAC	CAAAGGTTCC	GTCTGCCGCA	TCGTATGTAT	240
	GTGTCTGTGT	ACGAGGACCG	AAAAGTTGAC	TTTAAACGAA	GTAAGATTTT	TTATTAGATA	300
	TTTAAGCACG	TATCGGTTAA	CGAGCAGCTT	CCAAGGCGTA	TACCAAGGCT	CTGTGCGCTT	360
	ATCATTAGCA	GGGCGACATG	TCAGAATCCT	TGCTACAGAC	AGTGGTGGCG	TACGTGGAGT	420
	TGGTGCTGCA	CCACTTTCATG	GCGTTGTCTG	GGACGCAGCA	GCTGTCCATA	GTAATAGTGG	480
	CACCATTCAT	ATACTCGCTG	GTGTGGCAGA	CGTTATATTC	ATTGAGGAAG	GATAGAGTAC	540
	CGTAGTGCC	GTTTCATGGTA	CCCTGGGTGG	GTTCCGCGCT	CGCGTATGGG	AGGGCTCCGT	600
55	ACGAGTTTTT	TGGCAAGTGC	AGCAGAAGTA	TGGCGATGTG	TTTGCCTTCA	TGCTGCTGGG	660
	GCGTGTGATG	ACGGTGTATC	TGGGGACGAA	GGGCCACGA			

1406UP

	GATCTTCATT	AGAACGCGCG	GATTAGTCAA	AAAGTGCCGG	AATGTTCCAT	CCACTAGGCC	60
5	ATCTGCCTTC	ACCCACGGAT	TGCAAATGCA	GACAAGGTTT	ATTAGAATTA	TACCGATTGC	120
	CCAAACGTCG	CCTGCAGCAG	TAGGAGCTCG	GAGCTCACGA	CCGAGCGATC	CGCGCTCGGG	180
	TGCCATGTAG	TAAGACGAGC	CTACGCAGAC	ATTGGGGGCG	AGCTCCGGCA	CGGGTGTGGC	240
	CAGCCCGAAA	TGCATACAT	GTACGTTGTA	CCATTTGTCC	AGAAGAATGT	TCTCCGGCTT	300
	TAGGTCGCAA	TGATAGACGC	CGAGTCGGTG	GCAGTAGAAA	ATAACCTCGC	ACAGCTGCAG	360
	GAAGACCTTC	TTAATCAGTA	GGCCATCCTT	AGCAAAGACT	TGCTCGTTGA	CAATGGCTGA	420
	GAAAAGGTCG	CACGTGATGT	AATCCATAAC	AATAAATGTT	GCCAGGCTTG	ACTCCATCAC	480
10	CTGATGTATG	GTAACCACAT	GTTCGTGGGT	GTGCACAGTC	AGGTGCATCA	GCAGCTCCTT	540
	ATAATGTGGC	GCGTGGGCCA	GCTGCTCTTG	GGATAATGTC	CGGATCGATT	CCAGGTCCAC	600
	AGATGGTAGA	TACAGCCGGT	TCTGGAAAGA	TTGAAGAAGT	GGTACAGCTG	CGTGCAGAAA	660
	ATTGTCGACC	GGCCTGACGC	CTCGTCTGCG	CTGCCGCTGT	GCTGCTTCA		

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1408RP

	GATCCCGCTT	ACCAAGCAAT	TACAGGAGAC	AGAAAAGAAG	GATAATAATT	TACCACAGAA	60
45	CTCCAAGCCT	GACAGAGCAG	CGATTTACAT	TCTGAGTCAC	ATGACAGCAG	ACTCTCTTTG	120
	CTTTGGAGCT	TCAATAAGCA	CCAATATGAA	TATGAATAGT	TTAGATGCT	TTGTATAATT	180
	ACCACTATTA	ACTTTATCTT	GATTAATATT	TATTATTTTG	TTATTTTATT	ATTTTATTAT	240
	TTTATTATTT	TATTATTTTA	TTATTTTATT	ATTTTATTAT	TTTATTATTT	ATTTTATTAT	300
	TTATTTTATT	ATTTATTTTA	TTATTTTATT	TATTATTTAT	TTATTTATTA	TTTATTTATT	360
	TGTTTGTTTG	TTTATTATTT	TTTTATTTAT	TACCTTTTTA	TTTTATGTTA	TTTTATTTTA	420
	TTTTATTTTT	ACTTAGTATA	TAATATTATA	TTATATCATA	GTATAGTTAT	ATTATGGTGA	480
50	CTTTATTTCAT	TATATAGATT	GTATTTTGTG	AACATAATAT	ATATGCTATT	TCTATTTCTA	540
	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	600
	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	TTTTATTTTA	TTTTACT	

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1408UP

	GATCCGCCCTT	CCATCGAAGA	GGGTACTGTT	TGATTATGGT	GATTTCTTGG	TGTGGGTTTCG	60
5	ACATTCAAGT	GCATAGTTGG	AGGTTACCGA	TAACCTTAGAT	TTTCTTATAA	ACGGTTACCC	120
	TACGTCCTTCG	CGGTTGGCGG	ATATACTGAT	TAACAGTTGG	AGAGCCTTGG	CGGGATACTG	180
	TGAATGCCCTT	CTCTTCAACA	TTATTTGAAT	ATGCAAACGT	TATTTAAATT	AAGTAACACA	240
	CTTGTGCTTA	TATATTCAAT	TGTTCCAAGC	GCGCCATCCA	ACATGGCGAT	TCCTCATCTAG	300
	TTTGAGAACT	TGCGTCTATT	CTTATTCTGT	GTACGGCAAC	GGTATTAGGA	GAGACTTCGA	360
	GTTTTTGGAA	CTTCAAAGTC	AATACTTCAT	CATCGTAAGT	AGCAGTTACT	TGGCCTAAAC	420
10	CAGTGCCAC	CTTTGTAGGG	AGCCTGATTG	TTCCGCCGAA	CTCCGGGTTT	GTGGGTTCTC	480
	CAGTAGTCCA	CGCGTCTGTA	TTCTCATCCG	TATTAATGGC	TGGCAGGACA	ATAGAAAGAA	540
	CTGCATCATT	CATGTCTCGA	TGCAGGGCAA	TATCTATGTG	GTCTTGAGAC	ATTACGCCAG	600
	GAACCTGAT	GTGGATCTCA	TAGGCGTCCG	AACGCTCCAA	AATTAATRAAT	GAAGGAAGAA	660
	CGTCAGAAAT	TGCGCGCGAG	AGCTTGATT	CTGAAC TAGC	TGCCACACTC	TCAGCTTTGT	720
	GT						

1409RP

	GATCCTGGCT	ATCTACCTGC	TGCTGGGCGC	GCTGCACGCC	ATACTAGGGG	GCACATTTCAG	60
20	CGGATTAATG	TATGTGGAAT	ATGCGCGAGT	AGAAAACGCA	CGTKCATGTG	ACAACAAGGC	120
	CACCGGACTA	ACCAATTTAC	AGAACC GCCG	CTATTTACAG	GGCTGCCCTG	ATCGCGATGA	180
	GTACTTTGGAT	TCCGCTTGCA	TCCGCAGTCG	TACAGGCCCT	GTACCTGCTA	TGCGCAGCAT	240
	TTGTGGCACA	ATCCAAGCTG	ATATAGGATA	CAGACATCCA	GCAAGACGCT	GGATGGATCG	300
	GTTGTATCCC	TCTGCTGCAT	CAATACGCTA	TCCGCGGGCG	GCAGCTTATT	GTCACGTGAT	360
	TGCTATCTT	GTGGAGCACC	CAGACATATG	TTGCTGAGCC	TCCCTCAGCT	ATATAAGCGT	420
	CGAAGAAGGG	GTGATCTCGA	ATACATGTCT	CTGGCGCTGT	GTGCCTCGTG	CAGTCTCCG	480
25	CGATGTCGTC	AACTCTCATA	AACCGTTCCCT	TGGCAACTAT	CCGTACAGAG	CTTGCCTTTT	540
	TGGTTGATT	CGGGGTCAAT	ACGCGGCAGC	AGTCAGAGCA	GATTGAATCT	AATCTTCCAA	600
	ACCTTAACGA	AGCCCTCCGT	GGCGCTCCCG	CAAATAACGC	AGGGCCTGTG	GAGTATGTGG	660
	AGGCACTTTA	TGCGTTTTAG	GCGCAACAGC	CTGGTTGACC	TAGACTTCAA		

1409UP

	GATCGGGGAC	CAGAAAACCA	CACAAC TGGT	CCTTGAGGCG	GCGGTGGGCG	TATACGCTGC	60
	TACTGTCTCT	TCTTGTGCTA	GCTGTGGCCT	ACGGCTCTGC	GTGCGTAACC	GCTGGCATGT	120
	GGCTCATCAC	CAGAAAATAT	GATGTCTCAA	CCGAAGTTGC	AATATTGTCC	TGTTCCCTGG	180
35	TGGTTCTGGG	CTACGGTGTT	GGACAGCTGG	TTTGGGCGCC	TCTGTACAGC	CTGTACGGCC	240
	GGCGGATAAC	GTACTTCACA	TCTCTATTCC	TTTACGTGGT	ATTTAATATT	CCATGTGCGG	300
	TGGCTCCCAA	CATCCAGACG	CTTTTGGTTT	GCAGGTTTAT	TTGCGGCGTC	CTGTGCTCGT	360
	CTGGACTATG	CCTAGTCCGC	GGCTCTCTCG	CCGATATGTT	TCCAGCCGAC	CTGCGTGGGT	420
	TGACCATCGC	GTTCTTTGCA	TTTGCAACAT	ATGGAGGTCC	GGTATTTGCG	CCACTTATAA	480
	ACGGATTTCAT	CGCTGTCCGC	ACAGAGAGGC	TTGACCTTAT	CTTTTGGGTC	AACATGGCGT	540
40	TAGCCGGAGC	TGTTTGGCTG	TTAGTCCGAC	TGGTGCCCGA	AACATATGCG	CCAATTATTT	600
	TGAAACGGCG	CGCAGAGAAG	CTGAGGAAAC	TAACAGGCAA	CCAGAATATA	ATGACAGAAC	660
	AGGAAGCACA	GGGACTCTCC	CTGTCCGCAT	GGTGACAGCT	TGTCTACTGA	GACCG	

1410RP

45	GATCAATTTCG	TCACATTTTCG	CGTATGCAAT	TTCTACCATC	TCTCTTTTGG	TAGCCTTTAA	60
	TTCCACTCCT	GGTGTAACAT	CACTAATGCC	AATAGAAAAG	CCTCTATTTT	CCAGATAGCG	120
	CGCACAAAGC	TTTGCCATCC	TATTCATAGC	CTGCGTTGCT	TCTTGTGGCC	CGAAATCTCT	180
	CAGAATAGTA	TAGAATACGG	AATGTTTCTT	ACCATCACCA	AGCACAGACT	TATCCATGAC	240
	ACCAGACAGA	ATATTAGAGC	CTCTGATAAC	TACATAACCA	TCATTAGCAG	ACATCTCATT	300
50	TGGATAGGCC	TTATTCTTAG	GCGCAATATA	AACCTTATTC	TTTGCATCCA	AATTAATAAT	360
	AACGGGAGAT	TTTCTTCTCG	GTTTATCAAA	TAGAGAGAAG	AGCTGTTTTC	CAGTCCATAA	420
	GTAGTGTGGT	CGCATAATTG	CAGGCGGCGG	TATGTCAAAC	TGCAGGTTGC	CGTCAGACAT	480
	CATAGAAAGC	ATTTGGACAA	AAGTTGCGCG	GTCGAAGAAG	GAGTCTTTGT	GAGAAATCAA	540
	ATATGATCCA	GTGATGAAAT	CCTGGGTAGC	TGCAATGATC	GGTTCACCGG	ATTTCCGGAGT	600
	CAATAAATTG	TTTTTGACAC	CCATAAGGTT	GATTGCTTCC	GGGCGAGCCT	CTTCCGTTTG	660
55	AGGAACATGC	AAGTTTCATTT	CGTCACCATC	AAAATCGGCG	TTGTAGGGG		

1410UP

	GATCTGAGCC	CTAGCATCTT	CGGTTGGAAG	CGGGAACCTCT	ATTTTCCTAT	CCAAACGACC	60
5	GGAACGCAGA	AGCGCTGGAT	CAAGGACATC	GACTCTATTTC	GTAGCAGCCA	AGACTTTTAC	120
	CCTATCGTCA	GAACCAAAGC	CATCTAGTTG	GTTTAGCAAC	TCAAGCATGG	TTCTCTGCAC	180
	CTCTCTATCA	CCGGACTTCT	CCGAGTCAAA	ACGCTTAGTT	CCAATAGCAT	CCAACTCATC	240
	GATGAAGATA	ATGGTAGGTG	CCTTTTCCTT	CGCCAAGGCA	AAGGCGTGGC	GGACCAGCTT	300
	CGCACTTCA	CCTATGAACA	TCTGGACCAA	CTGCGGAGCG	GCCAGCTTCA	AAAAAGTCGC	360
	ATTGGTCTGA	GCGGCACAGG	CTCTTGCCAG	AAGCGTCTTG	CCGGTACCCG	GTGGACCATA	420
	CATCAGAGCA	CCTTTCGGTG	CCCTAATACC	CATATCCTTG	AACCTGTCTG	CCTGCTTCAT	480
10	GGGTAACACG	ATTGCTTCGA	CTAGTTCCCTC	GATCTGCTTG	TCTAGCCAC	CAACGTCCGA	540
	GTATGTTTCC	GTAGGCTTGT	CATCCACTTC	CATAGCTTTC	ACTCTAGAGT	CAAACTCCGA	600
	AGGAAGCGTA	TCCAAGATCA	GGTACGAGTC	CTTGTTTACA	CCCACCAGGT	CGTTCCGGCTT	660
	CAACTGCTTA	AGGGTCCACT	AGCCCAACCA	TGGGGAGAAA	AACGGTTTGT	CGCGACGAAG	720
	TTTCACA						

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1412RP

	GATCTGGAAC	CAGGATGACT	GTCTGGCAGT	TAACTCGGGC	GACCAGATTTC	GCTTCCTACA	60
	CAACTTCTGC	TCCGGTGGCC	ACGGTATTTTC	CATCGGGTCT	GTTGGCCACA	AGAAGGGCGA	120
	CTCAGTCACC	AACCTTCCTCG	CACAGGACAA	CCAGGTCGTC	GAGTCGGACA	ACGGTCTAAG	180
	AATCAAGACT	TTCGTGGGCG	CCATTGGCAA	GGTCGACAAC	ATCAAGTTCA	TCAACAACAA	240
50	GGTCAAGAAC	ATCCGCAAGT	TGGCTATCGT	CATCCAGGGC	GAATAAAGG	ACGGCACCAC	300
	CACCGGCACC	CCAACCGGCG	GCTGCCCAAT	CACCAACCTA	GAGGTCAGAG	GCAACACCGG	360
	TAACACCGTC	GGCAAGGGCA	GCAAGCTCAA	GATTCTCGTC	AAGAATGCGT	CTAAGTGGAC	420
	CTTCGCCGAC	AACAACATTT	TGGGCAAGAC	CTTCCCAGGC	TGCTCTGGCG	CACCTAACGG	480
	CATCAAGTGC	TAAGCGCCTT	TTTTTTTTTTT	GGCTGCGCCT	CGAAACTATT	ACTATGAACA	540
	TTGGCGTCCA	CCGCCACTAC	AAAAGCATCG	GGTCTATCCC	ATTATAACAT	TAAAATCTCA	600
55	GTTGATATTA	TATTTTACAT	TCGAATGTCC	TTAGGGCTTT	TTTATATTAT	ATAAACTTTA	660

GATTAAAAA ACGAGGTACA AGCAGATCAA CGAAGCTTTT CGGCCAGCCA

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1412UP

	GATCGAACGA	GATAAACAGA	GGTATTGGTT	GTTATCACAA	ACATATAATC	CTGGGGATAC	60
	AACGCTGTCA	AACTCTGGGC	CTTCTGCTTT	GTGTCTAGAT	TCCTTTTGCA	GGCTTGAGAA	120
5	TAACCTGTAC	AATTTTTTGA	TGTGGTTAGT	AAGAGACGCA	TCAACGATAT	CATCGCACAA	180
	AGTTCCGGTTT	CTTTCCCCTG	CAAGCGGGAA	TGCGCCTTCA	TTACTTCCCG	AATCTTCTCC	240
	ATGAGTCGAT	GGTCTCGGCG	TTGAAGCTTG	TAGTGTCAAA	GGTTCATTTC	TTGGAGAAGG	300
	TTCTATCTCT	ATTTTTTTGTC	CCCAGAAAGA	ATCATTTGAC	ATCCAATATC	TTGTAACTTC	360
	CCTGGGATGT	AATCTTTTGA	TAGCGGGGTT	TCGGTACAAG	CTGCTACCTG	CCAGATTATT	420
10	ATTTAAACGAT	TCTTCTGGTC	CGTGAAGGTG	ACGTATAAGG	TGGACGCTAT	TGGGTTTCTT	480
	TTCCAACATA	GGTTGTTTCAT	CAAATGAGAG	GTAAAATGGT	TCCTGCTGGG	AACGCGACGA	540
	AGGCTCCTTT	ACTTTAAGTC	TTAACAAGGC	GTCAACATAT	TCTTTTTGAA	TCGTTCTAGA	600
	AGTGGTTTACA	AAATCCATAT	TGCGTCTTAG	ATCTGACTCC	TGAACGCCTT	TGTCTAGTTT	660
	CTCATCCCCC	AGTGGTAAAT	CTGAACGAGG	GACAAAGTAC	ATGCAACTGT	CCTCATCATT	720
	GTAAGTCA						

1413RP

	GATCTGCTGG	GAGTGACTION	GGAAGCTTTG	TCAGTACCTG	GAATGAAAAA	ACAGTCTCTG	60
	ACAGAGCGGG	GAAGCTGGGC	CTGATGGTCG	TTACAGCGGA	CCAGTTCAAA	GAATATGAAC	120
20	AATTGAAGAC	TGTCAGCCCC	AAGGATCAAC	TTGCTCAGCA	GGCGAAGGAG	CTAGATATGG	180
	TGCTAATTGA	TGCTGCTGAA	CTATACGAAT	TAAGAAGCAA	AGTTTCCGAT	GGACTGTCTG	240
	CGGATTTGAA	GTCTGACTTT	GTCTTGAGCA	AGGAGATCAT	CTTTGAGAAT	GCTCATAGTT	300
	ATGGTTTAAC	CGTTCTTCAA	ACGGAAGAGT	ATCTTCAATT	ACAGAGTAGT	TTGGAGAGAG	360
	AACAGGTAAC	GTCTTACAAC	ATTGCCGAGA	AAGCAACTAC	AATTGGCTAC	GTTGCACTTC	420
	CAAGAACCGA	GTACGATGAA	CTTGTAGCTT	CGCAAGCTTC	TACGAAAGAA	CAGAATTTTG	480
25	AGGTATACCG	GGCGGAAAAAT	GGCAAGGTCA	TAGTGGATAA	ATCTGAGTAT	CACGATTTGA	540
	AGATCAAAGC	TATCCCAGTG	ATTTCAACAT	TGCCCTCAAAT	GAGCAAAGAG	CAGATGGTTG	600
	AAAAGGCCAA	GGAACCTTGA	ATGGTAGCTT	TGCTCATTGA	CGAGTATGAG	AAGTTAAAGA	660
	GCCCTATTTT	CGATAACGCT	TTGAATGCAA	CAGCGAAGGG	ACCGTGAAAA	GTTTGTCTC	720
	CTAAAGGAGA	GT					

1413UP

	GATCCAGTTT	TAGGTCCACT	TCAAACCTGGA	TTTTCGGGTA	CTCCCCGCAC	ACCACCGTCA	60
	AGTCATCGGC	ATAGATGGAC	TCAAGCACTT	CCAGCTCCTG	CTTTTGCTCC	TCCTGATAGT	120
35	CCATACCTAT	CCGCTCGACC	AACTATGAGC	CCACGCGCAG	CTTAGGGCTA	GACCGTTACA	180
	GCTGCAGGTG	ACCGTCCGGG	GGACGATGCG	CTATCGCTGG	CGAAATTTTT	CGCCTATACC	240
	ACCACTTATG	TTACCCGGTC	TATAGTGCTG	CTCTCCGACC	TCACTGATGG	TGCTGTCCCG	300
	CGGGGACTGC	TGCCTCGTGC	GGCCAAATCC	CCACCGCTCT	GAACGCTCGT	TCCATCTGCG	360
	TCACGGGTTG	ACCGAACGGG	AATTGCGCGC	GCCGAGAAAT	CTTGGCGAAC	CATGCTGCAC	420
	GTAGCCTTAC	TGCCAAAATT	AAGCCGTCAA	ATGGCTGGCT	ATCCTTCCAC	GCACGCCCAT	480
40	AGTCACCTGA	AGCTGGCTGG	AACAGTGGTC	ACGCAGCTTT	CTGACGCATA	CCAGGAACAG	540
	GTGGCCGAGC	CCGAGGCCAA	CGGTGGGTGA	TTATGTCAGC	GACTTTTGGT	GGATTACGTA	600
	AATCTGGGTG	CATGCCTGGC	ACGACAGCGC	GCATCGCACC	CCAAGACAAA	CGTGCCACAC	660
	CCATTCAATA	TTAGAGGACT	TTGCTGCACA	CCCTAATCAT	CCGTTGGGTT	GTGAGATACG	720
	C						

1414RP

	GATCCGTAAT	CGAGTTTAGC	TTCCGTGTCG	CATCATCGAC	AGGTGGAAAT	GCTCGCTTGT	60
	CGGCCGTCTG	AAAACGAGTC	AGATGTGCAG	AGAGGCTGAA	GTCCAACATT	TTAACCACCG	120
50	CTGAAGACCG	GGAATAGTAG	GGCAACGTAG	TTCCGCGAAC	TTCAGTTTIG	TTTTCTTTTA	180
	ATTTAATGGA	CTACACCAAA	AAAAGCTCAA	CAACAGTCCC	AATTAGTTCT	GCTAGAAGAT	240
	GCAAAACCGT	TAGTATCAG	TAAGTATGTG	TACTCGTGTA	CTCGTCTGTC	ACTGCAAAGT	300
	TCGCGTCACA	ACTAGCTGTG	AACCATGGTT	TGAAAAAATA	TAATGATAAT	GATTCCGCCC	360
	AGGATCGAAT	TGGGGACGTT	CTGCGTGTTA	AGCAGATGCC	ATAACCGACT	AGACCACGGA	420
	ACCACCTATA	AGCCCTTAAT	TATACTCAGA	TACTAGTGAC	CATTTCCTAG	TCACATGATG	480
55	CTAGTTTCTT	GAATAAAAGA	TGCACGTGAT	TACCAAACTT	GTATTTACTA	GGTAAATGTC	540
	CTTGGTGAAT	AAGTACGTAG	ATATTATATA	TGTATACATA	TGCATTTTAG	ATGCAATAAA	600

EP 0 866 129 A2

AGCTCTATTA TGTATGCGCG CGGAGCTTTA AGCCAGTGTG TTTTCCGATT GTTTTGTGGA
 TGCAATGGTC TTTGCATAAA AGCCTGACTT TCATCTTTTT CGTGCTTGA TGTTAACTTC
 CAACTCTGA

660
 720

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1414UP

	GATCTGGCCC	CGCGGGCGCA	CCGCGGCCAG	GGGCCAAAAA	GGAGAGCGCC	CGCGGTGGCG	60
	GCCGCCACTG	CGGCGGTTCG	ACAAGACATA	TATGTCGGTA	TATAAGACCG	CGGGTGCCGC	120
5	GTGGCTGCCG	TGCAGAAGCC	GCCGTGCGCG	CGCGGGCAGA	GATTTCTAAT	ACTCTGCGTT	180
	TTCTTTTTCG	AGCGCCTGGT	ATATAAGTTC	GGGCTGTGTC	GCGGGCCGTC	GGCGCCGTTT	240
	GCCAGGGAGA	TAGGGGAGCA	TTCCGCAGCA	GCCGTCTGTA	GCCGGACCAG	TACGACAGGG	300
	ACGCAGGACA	CAAAGCAGGC	GACGGCGAGT	GCGCGGGATC	AGCAGCGCAC	AGCGAGCCAG	360
	GGGTATAAGA	GCCGCGGTAC	GAGGCGGCTG	GTAGGTATAG	GGCCAGATGG	AGGTGGGTGC	420
	TAACGGGATT	TTTCTGCACC	AGAACGACTC	TGCGGAGACG	ATCAAGCTGG	AGATGTCGCC	480
10	TGTCGGCGGT	TCGGGGAGCG	CAGGCAGCGG	CATCGCGATG	GGCAGCGCGG	ACGACGAGCT	540
	GACGAAGTGC	ATCAGCGACC	TGAACATCTT	CGATCTGCTG	CACAACAACC	CGCCGTCGAG	600
	TTCGGACGAC	AACAAGGAGG	GTGGGCGGCG	GGCGGCTGCG			

1415RP

	GATCGTGGTT	CTGTTATCGA	AACGTTGGTT	GCTAGAACAT	TGCGCCAGGT	TGAAAGTAGC	60
	CAGAGCATGA	TACGAATTCT	GGGATTATCG	GCTACATTAC	CTAACTTCTT	CGACGTCGCA	120
	GACTTTTTCG	GGGTTAACAG	ACATGTGGGA	ATGTTTTATT	TTGATCAATC	GTTCCGTCCA	180
	AAACCCCTAG	AACAGCAGCT	GCTTGGTTGC	AGAGGCAAGG	CGGGCAGCAA	ACAAGGAAGG	240
20	AAATAATATG	ATTAAGCTTC	ATATAAGAAAG	CTTTATGAAC	ATGTCTTAAA	TGGCTCCAG	300
	GTCATGGTTT	TTGTGCACTC	AAGGAAGGAT	ACTGTGCGCA	CTGCGCGGAA	TTACATTTCT	360
	TTTGCCCAAG	CCAACCAACA	GTCCGATGTT	TTCTTAAGTA	GCGATCAAAG	CGTTACCAAG	420
	TTTTCCTGAG	ACATCTCCAA	ACATAAGGAT	AGAGATATGA	AGGAGCTCTT	CCAACATGGG	480
	TTTGGTATAC	ATCATGCTGG	TATGTCTCGA	TCTGATAGAA	ATCTAACAGA	AAAGATGTTT	540
	AAAGAGGGAG	CTATTAATGT	GCTTATCTGT	ACAGCGACGC	TGGCCTGGGG	TGTGAACCTA	600
25	CCGGCTGATG	TTGTCTTGAT	AAAGGGAAGT	CAGATATMTG	ACTCTAAAAA	AGGTGGTTTT	660
	ATAGATTTGG	GGATTCTGAT	GTGATACA				

1415UP

30	GATCATCAGG	AGTTCGTCAC	CTTGGAAGCC	AATTGCGAAC	CACAATTCCT	TCTGAGCCTT	60
	TGGAAATTTG	TCACACCAAA	CTCTGAAACC	GTCTTTGTAA	CTTTCATTAT	GGCGGAATGC	120
	TACAAGTGTC	AACTTATCAG	GGTTGGATTG	GTCTTTAAAA	TGTACCTTAT	CCAGAACAGG	180
	AAGCATCGAG	GCTTACAGTA	TAAACTTATC	TTTCGCGGCT	CCTTGAATGT	TATGCACGCG	240
	GCACACTGAG	CACAACGCAG	CATAGCCCAT	CCGACCTAGC	TTCTCCAACG	TCAGCATCTC	300
35	GCCACTATAC	TCATAGGGAA	AGCCATCATC	CCCGAATAAT	TCGGGGTCTA	AGCGTTGTAG	360
	CGTAATTCCA	GGCAAAGCAG	TCACCGGGTT	GTCTCTATAC	CATGTTCCCT	GCTTAATGCA	420
	CTGCATGGCT	TAAATCATAG	TCATAACTGT	CTCGAGGTAC	CCAGATTTCG	TTGCAATATC	480
	GATATAGGCC	TGTAGAATAC	GTAGCGCCTG	GTCGAGAACT	GAGATCGTAT	CTTGGTAATA	540
	ATCTGCAATT	GCTAAGTCAG	CTCTACTTAG	GTAAGCTTGT	AAAAGCAAAA	AGGCTTTGAC	600
	ATGGGGGTCC	CATATTGGTA	ACTCTTGTTT	TCCTGTAAAA	GTACTTTCAA	CGGAATATCT	660
40	AAGAGTTTCT	GACATTTCAA	CATTCATGAT	AGTCTCGCCC	CCC		

1416RP

45	GATCATCATT	ATTTCTGCG	TTCTGTCCGA	CGATTGGAAG	GGCGGGGTGCG	GTTTCTTGAA	60
	GGATTTTCAGG	CGTATGAATG	TTGCTCTCAC	CAGAGCAAAG	GCCAGTCTCT	GGATCCTGGG	120
	TCACCATAAA	TCTTTATACA	AGAACAAGCT	ATGGATGCAT	TTGATTTTCAG	ATGCGAAAGG	180
	GCGTGAAGTC	CTCCAAATGG	CATGTCCGGG	CTTCTTTGAT	CCACGGAACA	GAGCCGCCCC	240
	GGATGCTCTT	CATAGGTTCA	AAAATCACCA	TAATTATATC	GAGAACGCAG	ATGATTTATGG	300
	GCCTGAACCG	GTGATGACTA	AATCAAGAGG	ACGCAATAGA	TCATCCAGAA	AACGCAAAACA	360
	TATGGAAGAT	AATCCAGATG	ATAACTACGA	TCCCGTTGCT	GAATTCAAGA	AGGAAAAATCA	420
50	AAGAGAAAGC	AACACAGGCA	CCGGTGGTTA	CCGTGCGGAT	ACATCTAACC	ACAGATTGGC	480
	ACCTGCTAGG	AACGATAGCA	AGAAGGCCAA	GACGTGCTCC	AATGCCGCCG	GTATTTCCGA	540
	GGCTACTTCA	GAGGATGGTG	ATCGAGGTCA	GAAAGGACAT	GGAACCTAAGA	AGAAGTCTTC	600
	CATATTCCGG	AATTTTATGC	CCCCAGTTGA	TGACGCGACC	CCTGCTGCCC	ATGTGTACGA	660
	CCCTAAGGAA	CGCAAGCCCC	AGAATGCTGC	ATCCGCTTAA	GCGGCTGGCC	TTGGGAAC	

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1416UP

	GATCTTGCCC	GGCAAGACCA	GGAAGTCGTT	GTACGTCAAC	CCGCCCCGCG	TCTTGAGTGC	60
	CATCAACTGC	TCCACGGGAC	AGCCCGTCCT	TCCTCGCGTA	CGTCGCCAGG	TGCTCCAGTG	120
5	CCGTGGCTGC	GTCTCTGTAA	GTCAITGCGC	TTTGTTCCGC	GTGCTATGAA	GAGAAGGAGT	180
	CAACACTAAA	CCCAAGCTCT	CAAGTTGACC	CATCCATCAA	GTAACATATCC	CGAACAGACG	240
	CCGGTAAACC	CAGCTGGGAT	TTGGCGCATC	TAGAAAACCT	ATTTATACTG	CAGCTCATCG	300
	CTGCAAACTT	TTACAGTAAA	AGAAAACGATG	ATCCAGCGGG	GGCCAAAAAG	CAATGGGCCT	360
	GCGCCGCACG	ATGCGAGCCC	TACCGGCGCG	CAGCACCAGG	TAGGAGCTGT	CAGGGGCGCTA	420
	GAACGCGCGC	ACGCTAGACG	GGCTCCTCGG	GGGCGCGCGC	AGGCGTCCGA	CGGGCGCCTC	480
10	GCAGCAGCAG	GCGTGCCAGG	CGGACCAAAA	GACCGACCAG	CCAGCGCAGC	AGTCTGTAGA	540
	CGGCGCGGAG	CAGGCGAACG	GCCAGGAATA	CAGTCCAGAG	CACGGCGGAG	AGCAGCAGGA	600
	AGTTGAACAC	GCCGTCCATG	CCCACGCGCG	CACAAACGGG	AACAGCGCCA	GCGCGCGCTC	660
	GCAGAGCGGC	TGCAGGAATG	CGACGACGGA	CAGGAACGGC	AGGATAGGAC	TA	

1417RP

	GATCCCCCTTG	GCGTCGTCGT	TGACCAGGTA	GCGGCGCTGT	AGCCCCGAAGA	AGCCGGACAT	60
	CCGGTCTGAC	GCGGTCTGTA	GCGGACGCGC	CATCATGCGC	GCGCTACTGG	AGATCACGCG	120
	CCGGTACAGG	GGCCAGTCCT	TGTCGATTCC	GACGCCGGGC	GCGTAGCGCG	TGCCACGAC	180
20	GAACGGATGT	GTGCGTAGTG	AGTCCAGAAG	CAGCGGTACG	CTCTCTGGCG	GATGCTGCAG	240
	GTCCGCGTCC	ATGCACACCA	GGTACTCGCC	CTTGCCCTCG	TAGAAGCCCT	TGAGCACCGC	300
	ACTGCACAGC	CCGCGCTCGT	CCGTGCGCAC	GATGATCCGC	ACGTTGTAGC	CCTGCTTGGC	360
	CAGGGCTCC	ACCTCTTCCA	CAGACCCGTC	CTGGGAGTTG	TCGTGACAA	AGATCAGCTC	420
	AGTCTTCTTG	GAGTCCGCGT	TACCGAGCGC	GGCAAACAGC	CGCGTGGCAA	GGGGCTTGAT	480
	GTTGGGCTTT	TCGTGGTAGG	CCGGCACGAC	CACAGAGTCT	CGATGCTCAT	GGCGCTCGTA	540
25	TGGTCCTTAA	TGTAGTGAGT	AGCGAACGTC	GGTAGCTGTT	TCGCAAAATA	GTGAGGCGCTG	600
	CGCGCCTAAT	GTCGTGTCCT	TATCGTTGCT	TTTTGGTTTCG	TGTCACGGGG	TTACCCGGCC	660
	ACCAGGCTAG	ACAGCGAGAC	CCGCGGTGAG	CAGCCACGGA	CCAAGAAGCG	CTGTA	

1417UP

	GATCTGCGTA	GGTAGTAGAT	GAATTGAGGG	TATAGGAAA	AGTTTGGTGC	CAAGCGGAAG	60
	GAGCGGGGGT	CGCCCTTGTT	GTAGTCGGCG	TACTTCTGGC	AAAGCTTGAT	CAAAGTTCTA	120
	TCGATCCACC	GGATGACGTC	AGCGCCATCA	TCGGAATCTG	CCTTATCGAC	TGCAACACGC	180
	GCCATTAGTA	CAGCAGCGGC	CTCCTGGTCA	AAGGAAGCAG	CGATTGCCGG	GTTACCGAAT	240
35	GGCAACATCT	GGTTAGCAAC	TGTAGTCACT	CTGACACGGT	TGGTACCAGA	TGCATGCTGG	300
	TATGCAGTAA	TGAATTGGGT	GTATGCCAAT	TTTGGTCTGT	CCCCCATGAG	GCTGGCAGTT	360
	GCAGCGGTAT	TTGCAATCTC	GAAAAAGATA	GCCTAAGAGT	GGTGAGGGCT	CAAGGACGCC	420
	ATTTTCCATG	TAGAAGTGCC	CCCAATACCG	ATTTCTGAAT	CGCTCACGTT	CTGTGCATCA	480
	ACGTTAACCG	GCGAAGCATG	GCCAAATCAGT	CCCTGCAGCT	TTAGATCTGC	ACTGGTTTTA	540
	ATGCACATGG	AAGCATTGAA	CGCCATGGTT	AGGTACCCCTC	CTCATCTTTA	GAAAAACAGTC	600
40	TGATGAAAGA	TTGCTTGAAG	ATGGCCGTCG	AGAAATGCGTC	AGTCAACAAC	AAAACACCAC	660
	CAGTGGAGTC	GGTCAACTTC	TTCATCTCAG	ACATACAACC	TGGTCGTAGC	ATCCA	

1418RP

	GATCCGCGAG	ATTTCATCGTG	GACCCGCCAC	AGGCAATTAC	TATAACAACA	TCCTGCGGTG	60
	TTAAAGGACC	TAACCTCACGC	TCAAGTATTT	CAGGATGATA	TCCTAGATGA	AGAGCTGCGC	120
	CACACGCTGG	TTCCGGTTACA	ATATTGCTCT	CTTCCGCAAA	ATTTAAACAT	GTCTGTACTA	180
	CAGCGAGCTG	GTCAAGCACA	ACAGATTTTG	TCCTGTATTT	TTGGGCCTAA	CTCAGAGTAA	240
	GATCCGTCAC	GAAAGATGTG	CATAAAGAAG	TAGCAACGCT	TTTAGGATTTC	ATCGAAACGT	300
	TCCTGCCAG	CAGCAAGAT	CTGTGCAAAA	CCTCGCACCC	CTCTGTTTCC	ACTGCTACAA	360
50	CAGGGATAGA	GTCTGCCAAA	CCATGTTTCT	CCAGCCCAT	TACAATCCCA	TTATATAACC	420
	CCCCGCCACC	TACGCTGCAG	ACGATACCTT	TCACGCTCTC	CAATTGCACG	CCTTGAGAGT	480
	GCAGTGCTTC	TACTACTTCA	TCTACCATTG	TTGCATGCCC	TTCCCAGATG	AGTGGGTGTG	540
	CGAATGGATG	TGCATATATC	GGAGCGACTT	TTTCTAAATT	CACATTCCCC	ATCAACTCGG	600
	AACGTAAGTA	TCTTTCAAAT	CACCTCCCAT	TGATATCACA	TCTGCCCCCG		660
55	TTGACCGTAT	CCGCTCTACC	ATCCGCCGTC	GAGTAGTTTC	AGGCACTACC	ACTGTGCAAG	720
	GTATCCTA						

1418UP

	GATCATCTGC	GTGCGATACT	GGCAAAAAAT	GAGAGACAGC	ATGATGAAAA	TATAGTTAAT	60
	AAGATATTGC	ATGATATAAG	CACAGGCGGG	TTTCGTGCGAA	GAGGAAAGGG	TGCACTTGAT	120
5	CTGGAAATGA	GTGAAAATGA	AGACCAAGAG	TTACAACAGT	TTAGACAGAA	AAGACGAGAA	180
	CTTTTGAAAC	AAAAGATATT	GGAAAAATGGT	GATAC TAGCA	AGCTCGTATC	TAACCCCAAG	240
	TCATACGCCCT	TTTTTCAGAC	GATGGTGGAC	GATGTTACTG	AAGCATCATT	TGGAAATACA	300
	TTTGATGCCA	ATATAAGATGA	AAAAACAGAT	CCATCTGCTG	CAGGTCGGAA	AAITGTCTATA	360
	TCAGAACAAT	TTGTAAAGGA	AACCCGTGCA	TTCTTGTCGA	GCAAGAGTGG	CGACTCAGAA	420
	ATCCCTGCAG	AAACTAAAATC	TATTTTCATCC	AGCACAGTTG	AACGTGAAGA	AATTCAAGAC	480
10	CTTCCATACA	TTGAAGCAAA	ATAGTAACAT	TAAACATTTG	AAAGGAATCT	AGAACTTCCT	540
	GCTCAGATGG	CTGAACCTCAG	CAGTGGAGAT	GAAGGTGATT	ACGGCTTTTC	TTTAGATAGA	600
	TTCCGCTCTGC	GGCAAAAAAGT	TTAATAATGG	AACTAACGTC	GACGATAAGT	TTAAAAGTGG	660
	CACCAAGGCA	GTGCGAATCT	TAAAGGCCAAT	AAGACAATTG	GCGGTCAAAA	GCC	

1419RP

	GATCTGGGGA	GTCTCATCGA	AACGTATTCTG	ATGAGGCTTG	GTGGTGGCAG	GCGGCTCCTC	60
	GCTCGATTGG	CGAGCTGGTG	ATGACTTTCGC	ACTTCTCCGG	GCCGGAATAAT	TCGTGTGAGA	120
	CAGTCGGCGT	TGGCGTTGAA	GCTGCGCGCTG	TTGCTGACACA	CGTGGTGGCG	CCCTTAGCTG	180
20	AATACGTAAC	GCTGGCGCGG	TGTCCCGCGC	ATCCAGGTAT	TCTTCGAGGC	TTTCTCTCTC	240
	GGCGATGCT	GAGTACCGCG	AGCAATCTGA	TACACGTGGC	CCGAAGATGT	CCGAAATCGT	300
	TTGCTTCGCG	GTGAAGTCTC	CCTCAAACCC	GTAGAAGTCA	TGGGGGTATT	CTCCATCCGG	360
	CATGTCTATT	GTAGTAGTGG	TCTCCACATA	GCGTACGCCA	TTGATGTGCT	TCACCGTCTG	420
	GCGAGTCACG	GTCGGTGATC	GGCCCTGGAG	ATCCTTCGTT	TCCGTGCTCT	TCACCGTTAT	480
	CGTATTGCCA	GCTGCGACAG	CAGGAGGGCC	AAAGCCGTTG	TTGCTGCGTA	GCGAATTCGC	540
25	GCGTCGTTGC	GAGCTCATAC	TGTAAGTCCG	CGGAGGCGCA	CCGAGGTAGC	TGGGCCGAGC	600
	AGCTCCTAGC	GACCGCGTCC	GCCCGTACCC	AGTCAGTGAC	TGAGTCCGCC	CCATCCCAAC	660
	CCCTGGTCTT	CGGAGTGACG	CAACCGACGC	CGCCGCAGAC	GACAAGCCGC	TGCCTGTTGA	720
	ATA						

1419UP

	GATCCGTCCG	CGCCTGCGTA	CCCATAGGGG	CGAGGTGCGC	GCCGGCCCGC	CAGGTCACTG	60
	CGCCCAAACC	GCACCTGCAC	CTGAACCGAG	CCTGCGAGCC	ACGAAGGAAC	GCCACGCTAC	120
	ATGTGCCCGT	GCAGAGCACC	GCCCTTGCTCT	TGCGGGGCTG	AAGTGACTGT	GGCACGCTCC	180
35	GCAGGACATA	TCCTTTTAAT	GAGCTGTGTC	ATGCGCACAT	TCTCACCGTC	GCGCTACCGT	240
	AGCGTCGCC	TCGTGTCACG	TGTGAGCTGC	TGCCAAAACA	AACAAATCGG	GACGGGCCCG	300
	CATGCAGTAA	TTACCTCCTC	CCGAAGGCAA	CGCCTTGTTT	TTGTTTACGT	TGGCCAGAGA	360
	TTTTCTCTTT	GGGGTGGATT	AGCTCACGCG	TCATCCGCGT	GGCAGAGGTG	CCTGCCCTGA	420
	CAGTTCTTCG	AATATTAGAT	GCTGGTATGC	GGGCACGCCT	AGCGCAACCG	ATTGTAGTTT	480
	ATTGTTTCGT	CACACCCGGC	TAGAGGGCCG	AGCTACAGGA	TCCGCCGATG	GGCGTGACGG	540
40	ACAGCGTCAA	CGTTACGATC	TCAACGGTCC	CTCGTGCGGG	CCCGTCTGTG	GTAGGCGTTG	600
	AGATACGCTT	AGGATGAAAG	CACGAAAATT	AAGGTTGTCT	TAAAAACACA	AAGTCAACTG	660
	GGGTTTCCGA	ATGGGTTAGA	GTGCCATCGT	AATGGCGGAC	GGAGAGTGTC	CATGGTGCGA	720
	G						

1420RP

	GATCAATTCA	AGGTTGCTTT	CCCAGACATC	TACGCTGTTT	TCCAAAAGAT	CGCTCAGCAG	60
	CACCCCGACT	ACGAAGTGAC	TGTCACGGGT	CACTCACTGG	GTGGCGGTTA	TGCCTACTTG	120
	ATGGGCTTGG	AGCTCCAGCT	ACTTGGCCAC	AAGCCACATG	TGATCACCTA	CGCCGGCCTG	180
50	CGTATGGGTA	ACGCTGACCT	CAACAAATGG	TACGACAAGG	TGTTGACAAA	CGTCAAGAAG	240
	GTCGAGGACT	TGAAAAACGG	CGGAAACCCA	AGAAACGCCCT	ACATCCGTGT	GGTTCAGAGC	300
	CGTGACATTG	TTCTATGGT	TCCAACCTGGC	CCTATCTACA	CGCACGCGGG	TATCTTATTT	360
	ACCATCAGTG	ACGTGGACAG	CGAAGTACCT	CTACAATCGG	GCGTCAGACT	TGATGGCTGT	420
	AACACCAAGC	TAAAGGAGTT	GGTCGGCGAC	ATCCTCTTCA	GCGGGAAGTT	GCTAAGCTTG	480
	GTGCGTCTCC	TGAACCACAA	CAAATTTTTC	AGAAGAATGG	CTTTGCCATG	CACTGATAAT	540
55	TCCTTGAAGC	TATAATTCCG	AGGAAGTAAT	GAATTTTAAG	TACGGAACGT	GCACTGCTG	600
	CAGTCTTCTG	CCTCTTCCTT	ATGCCCTATA	TAGTTAATTT	GATGTTCTGT	TCTATTTTTT	660

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TACATTTTCC AAACACTGGG AATGCCACCT TG TAGATGTT GTTCCCAAGA TGGATATTTA
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1420UP

	GATCCGTCGC	GAGGCGCGCA	CCAAGCGCAA	GTGCATGGTG	GTGTGGCCG	GCCTGGAGGT	60
	CTTCGAGATT	GACATGAAGA	AGCTGGCGAA	GACCTTCGCG	TCCAAGTTCC	CGACGGGTTG	120
5	CTCTGTGTCC	AAGAACGTCG	AGAAGAAAGA	GGAGGTCTGT	GTTCAGGCG	ACATCGCGGA	180
	CGAGGTTCGAG	GCCTACATCC	ACGCGCTGCT	AGAGGAGAAG	GGGATGAAGG	GTGTCAAGGT	240
	CGAGCAGATA	GACGCTGCCA	AGAAGAAGAA	GAAGACGCCG	ACGACGACGA	CGCCGCCGCC	300
	GTCTGTGAAGA	GCGGGTCCGG	ACATGTGTAT	CAGATTCTGA	TGTAGTGATT	AATGATTGCC	360
	GCGATTTCCA	GTGTCTTACC	AGTCCAAGAG	GACAGGTGTC	TGGCATGCTT	GCACATTGCT	420
	GGCGTCTGCG	TGGGGACCAT	GAGCCTGGAG	ATGGATCTAA	TTGAATGGGC	GCTTAACCTG	480
10	CGTGCTGCGG	GAGGCGGGGT	ATTTGGCAGT	GGCAGCGAGG	AATTGGACAG	AGTGCTAAAA	540
	CTGCACTACC	GAGTGACATA	CCATGCGTTT	GACCGGGGCA	CCAAGCGGTC	GGTGTGGGAA	600
	GTCTGTCTGGC	GGAGGCCGAG	AAGATC				

1421RP

	GATCCCTCAG	TTCCCCATCT	TGCCCTTCACA	GCCAGGATGG	ACCATCCGTA	ACTGGGAGTT	60
	ATGCGGTTTC	ATTTGTCTTT	TTAGTACAGT	ATTATCTCTC	TGGTTTTACA	TCCTACTTGT	120
	TTTATCGTTA	CTTGGGTATG	TATGGCATCT	TAAATTTTAT	CGACTCTAGT	ATTTTTATGA	180
	CTGTGTAAAC	TAATGAAAAA	TAATGAATCG	AAGTCTCGTT	TACCTAGAGC	TGATTATGCC	240
	ACATGCGTAC	TATCGGCGTG	CCACCGCAAT	TATGTATCTA	TCCTACAGAT	AATCCTTTCT	300
20	ATTAGCAGTT	CTCAGGAAAC	GTCTCAGTTG	CCACTCGACG	TCAGCATCCT	TGTTCTCCAA	360
	GGTGCCCGAGT	GTCAGCTCGT	AGAGCTTCAT	TTCGAACCGT	GGTCCACCT	CCGCCAATTC	420
	AACTCCATCT	CTCGTCTTGA	CGTATACGTG	CTGCCGCACA	CTAATGAAAT	CGCCGCGGTT	480
	CGCAAATGTT	ATGACCCCTAG	GGCTGTCTTT	CTTGACTCCG	GGCGGGAACA	TGTGCTTCAG	540
	TATTTTAAACG	ACCCGTTGCC	CCAATGGAGT	ATTGAAATTA	TC		

1421UP

	GATCATCATA	CCGTGTCCAA	CATCGCCAC	GGAACCAACA	GTCACCTGAA	GTGGAACGCA	60
	GGTAACATAC	GCGATGGCCT	CCACGACGAC	TTGGCCAGCT	TCAAGGACGC	AGTCGTGCAC	120
30	TGTCTCACGT	TCCGCAGCGG	CCAGTCCCGC	GACTACCGCC	ACCAGTCGTC	CATGTTCCGGC	180
	AACGGTTCTG	CTGGCAGTGC	CAAGTCCGGG	TCGTGGTTTCG	GTGGCGCGAC	TGACTCGCGC	240
	GATGGACTAC	TCCGAGCGCG	GCGCGAGGCG	GGGCGCGAGG	CCGGTCCGGA	GGCCAGCTCG	300
	TGGTTCCGCG	GCGACAGCCG	CACCGAGGAT	TCGGGCCGGT	CGTGGTTTGG	GCGCGACGCC	360
	CGCGACACCC	GCGACACTCG	CTCGGACCCG	TCGTGGTTTG	GCCGCGACGC	ACCGGAGGCC	420
	CGCACCGACG	GCACCTGGCT	CAACGGAGAG	CGCGACCGCT	CGTGGTTCCG	TCGCGAGAAA	480
35	CACGCCACCC	TCGACGAGTC	CGACCGTGTC	TTCCGGAATG	TTCGCGCTCT	CGGCGTCGAC	540
	ACCACGCGCT	AGGCGCCGAC	GCCCGCGGCA	AGGTCGACGA	CATcAagcag	GCAGGTGCAG	600
	ACCTCGGCCG	CTCCGCGCAG	GCCAAAGGTCG	ACGACTTCAA	GCAGGCCCGC	GCTGACCTCG	660
	GTCTGTCTGC	CTCCAGCCGC	GCGCGCCGCG	GCGTTCGCGA	CGCCAAGCAG	ACGCTCTCAG	720
	GCGCCGCCCTC	CACCGTCTCC	GGCGCCGCGG	CCTCCGCTGC	TGGCGCCTCT	CGCGACGCCG	780
	CCTCGTCCGC	CGCCGACAAG	ACCCAGTCCC	TCTTCAACTG	GGGCTACAAC	AAGGCCGAAA	840
40	AGTCGAAGGC	CATCGCCATC	GGCGAGTACG	ACAAGGCCAA	CAAGGACTAC	CAGCAGGCCC	900
	TCGACGCCTA	CAACCGCTCC	AAGCGCCTGC	TCGCGGACGG	CGACCAGCAC	CTTCGCACCG	960
	GCCTCGAGAG	CGCCCAGGCC	CAGCTGCCGTG	ACTGTGCGGA	CAAGCTCGAC	GCCATCTcCG	1020
	CGGAGTTTGA	CCACTACGCC	CGCGAGAACA	TcTcCGACAT	CTNCCGGCGN	CTGGACCACG	1080
	AGGACCGcGA	TTCCGCGGcT	TCCGGcCTCT	TTAGCTGGTT	CCGcTTCAAG	GCCCgGcTGT	1140
	cGAAATCGAC	CT					

1422RP

	GATCCGTGTC	CTGGGGCTGG	TCGAGAACAT	GAGCGGCTTT	GTGTGCCCAT	CGTGCGAAAA	60
	CGAGTTCGACC	ATCTTCAAGC	CAACAACAGG	TGGTGGTCCG	GCCTTGTGCG	AGGAGCTGGG	120
50	GATAAAGTTT	CTTGGAGCCG	TGCCGATTGA	TCCGCGAATT	GGAAAGATGCT	GCGACTCTGG	180
	CGAAAGCTTT	TTGGACGCCCT	ATCCGGACAG	TCCAGCGTCG	ACCGCCATCA	TGCATGTGGT	240
	AGAGGCTCTC	CGTGACGCCG	TCGGCGACGT	ATAACGCGCC	TAGCAGTTCC	TGCCAGTGAC	300
	AGACTGATAC	CAGTTTATAC	ATACATACAT	ATTTGTAAAA	AAGACGCTTA	GTGTTACGTG	360
	GATGCGAGCG	CCCGTTTCAG	GTAGATAGTT	TCGGGCTGTC	CCAGCGGCAA	TGCAAGTAAT	420
55	CTGTCTTTAA	AAGACGGGGT	CTCCAACGCT	TGTCGATAAT	TCTCAAGGAT	GATATGACAG	480

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ACAAGTTTGG	ACATGACACA	GCAAACGACG	GAGAGTTCTC	GGTGGGAGCC	GAAATCCGTG	540
GCCAGGACGG	GCAGAACCCG	GACCAGATCG	GAAAGCAGCT	CTTGGTTGTG	GTGTTGTCA	600
AGTGCTATCT	GGAGGTACTT	CTCAAATACC	CCCAGGCCGT	GAGTCCAAGT	TTCCATCTGT	660
TGTGCGGGGA	AAGTCTCCAA	TAATTGACGC	AGTGTCTGCA	AGTTAGCAGC	TGA	

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1422UP

	GATCTCCTAG	GCGCCAAGTC	GACGACTACA	GGCGGGCTTT	TTGGGCCAAA	GACGGAACAG	60
	AAGCCCCGAG	GCGGCCTTTT	CGGACAGAGT	AGTGCCGCTC	CCAATGGCAC	TGGCGGCGGT	120
5	GGTCTCTTCG	CTAGCACGGG	CAACAGCGGC	AGCACCCAAT	TGGGTGGGCT	GTTGCGCAAC	180
	AGTGCTGCGG	GCGGTGGTGG	GAGTCTTTTT	GGCGCCGGCT	CGGCCGCGAA	CAACAACGCA	240
	TCCACCTCGT	TGGGAAATCT	CTTTGGGAAA	CCTAATGACA	CGGCACCGGC	AGCTGGTGGA	300
	GGTCTTTTCA	GCAATCGGCC	GAACACAGCC	ACCACAAATA	CCGTTCCTTC	CACTAACAGT	360
	CTTTTATAGCA	ATAATCAGGG	AAATGGTGCG	CAGAATAATG	GGGGGCTCTT	TGGTGCGAAA	420
	CCTACCGGGG	GGCTCTTTGG	AAACAGCACC	GCTCAGCCAC	AGTGCTCGCT	TTTGGGAGCT	480
10	TCCTCCTCAC	AGAATAATCA	GCAGCAGCAG	CAGCAAACAC	AGCAACTGTC	CCTTCTGGGT	540
	TCCAATCCAT	ATGGCCTGAA	TCTGACTGGT	GTTCTCTGTTA	CTACCATGCC	GGAATCTATA	600
	ACGGCAGCAA	TTACGTCTAA	GAAGAAGACG	AAGCCTACCG	CT		

1423RP

	GATCGAACAC	AAATTCATCT	ACGAACACAA	ACTTGGAGCG	GTTCTGTGTG	GTTATATTGG	60
	ACAGGAACAT	TGACCTACCT	TCAATGTTTG	CGCATTCGTG	GATCTACCAA	TGTTTAGTAT	120
	TTGACGTATT	CAATCTCTCC	AGAAATACGA	TTTCAGTACC	GAATACTGAT	GAAAAGGGAC	180
	AACCCACATA	TAAGAAGATG	GATATTGAGC	CTAAAGACTT	CTTTTGGACG	ACAAATGCGC	240
20	ACTTGCCGTT	CCCAGACGCA	GTGGAGAATG	TCGAAAATGC	ATTGGCAGAC	TATAAGGCCG	300
	AGGCGGAAGC	CCTAACCCAGG	AAGACAGCG	TTGACAATAT	AGGCGATTTA	GATCCTAACT	360
	CTCAAAATGA	TACTTTGCAA	ATTACAGGAG	CAGTGAACAA	GTTGCCGGAA	CTGACTGTCTA	420
	GGAAGAATAT	CATTGATACA	CATATGAATG	TTCTGGCTGC	GTTGTTGAAA	GAGCTAGAAA	480
	ATAAAGGGTT	GGATTCTGTT	TTTGAAATGG	AGCAACAAAG	TGACTCTGCT	AAGGTGAGGC	540
	AAGCATTCAT	GGACGTTTTG	AAAGATGGCA	AGACCAATAA	CCTCAAGGAC	AAGTTAAGGA	600
25	CATACATAAT	CATCTATTTG	ACTAGTTCGG	AGAAGCTTCC	CGATCAATTC	GTCCAACATG	660
	TTGAGAGTTA	CTTCCAAGAT	AATAATTTTC	AAACGCCAGC	GTTGAAGTAC	TCTATAAGT	

1423UP

	GATCATCCTG	TTGAACTGCA	TGCTCATGTC	GTCCGATGAG	TACACATGAT	TGAAGTCAAA	60
	CAAATGTTTG	CCCGACTTGA	CCTTGCCGCC	ACGCAACGTC	GCAAAACAATC	CGTCGCTGGA	120
	CCGAAAGTCT	GGGATGCCTG	CAGCCACAGA	GATCCCCGCA	CCCGTGACCA	CCACGATGTC	180
	CCGACTGTGC	TGGAGCGCAT	ACCGAATGAA	GTCGGCGTCC	CGCGCGCTCA	CCAGCTCCGG	240
	GTCACGTAGC	TAATGCGCTA	GCTGAAATAC	CGAGTTCGTC	GCAGGCCTGT	ACGTCAGCCG	300
35	CGGCTTCCTC	CGCACCGGAG	CCCGCGCCTT	CGCGAGCGCC	GGTAACAGCT	CCTTCGGTGT	360
	GACCTCCTCG	GACACGCTCG	GCCCCTGTGC	GCAGGCCTCT	GTCTGCTTCT	TTTTGACGCT	420
	CGACGGCGGC	GTGATCGGCA	GCTTCACCTT	CATCGGCGAC	CGGTACCGCT	TCACACCGAT	480
	ACCACCAAGA	GCCTCCGTCA	TCCCGCACGT	TCCACAAACC	TCTGCCGCTT	GCTGCACTCG	540
	TGGTTGCCCC	GCTGCGTGGC	GTGTAGCGGA	CATGAAATGA	GTGACGGCGG	GCCCAATTTT	600
	GCCGGCGGTT	GCTTTTCGACC	AATCCGGAAA	ACTTATCCCC	CGTAAAACAA	AGGCAGGACT	660
40	TCCGGTGTGG	CGATAGCGGC	TTTTGTGCGA	TGGGCTCCTG	GTCCCGTTAC	GCCTACATT	

1424RP

	GATCTCATCT	GTATTTGGAA	GGGAACGCAC	CAGACGGGGG	TGACTCGCAG	AAGCTGCCAG	60
	AGGAGAGAGA	AAACATAGAA	AATATATTTA	TATTATCTAT	ATTTCAGTTA	CATAAGAATG	120
	TGTCATAATT	TTATTGTTTT	TAGATTTTGA	CTTGCGAGTG	CCCTGCATAT	GACTATCCTT	180
	TTATTCTAGA	TTTTCAGTCTA	GCTAGTCGCA	AGGAAATCGA	TATCGTAATT	CCCATTTAGA	240
	ACAAGATACA	AATTAGCGAA	TTTCCCGGAA	AAACCGGTCT	TATAATACAG	CATCATTGCC	300
	GAATCCATAC	CAGTCCTTCA	ATTAAACTTC	CGAATCAAAA	AAGGCCCGGC	GCGGTCTCAA	360
	GAATCTTTTC	GCCAGTACTC	GAATGGTGAC	TATCAGCAAG	CGACTCTTCA	CTACCCGAAA	420
50	CGACCATGAT	ATTTGTGTGC	AGCAAAATGAT	TTAAGGCTCT	CGAGACACCT	CTTATTGGCG	480
	TCCTATGTGT	TCTGTGCACG	CCCTGGCCCC	GATAAAGAAT	GCAGGTGCGC	TAATAGTAAT	540
	TACTAACCGT	TTTTTAAATC	GCCGTCTTGG	TTGAGACCTG	TGAAACGATA	ATCCCATTTA	600
	TACCAGATGA	ACTCGCCGCA	CTATAGTGTC	CGTAATTCAG	CACTGTGGAT	TCCGAGTTAG	660
	GGTGCGCGAA	GTAGCAAATT	TGTGTATCCT	CCATAATAAG	GATATCCAAT	GCCAGTATAA	720
55	TAGT						

1424UP

	GATCATCGTA	TGCACTCAGT	TGTATTCTAG	CATAGCCCGT	GCGATTGCCG	TGATTTTCGAA	60
	CGATGATGAC	AGGCAAATCA	CCATGAGGAG	CCGAGGATTTC	TCCGCTAAAT	TCAGCTGCAT	120
5	TTGCAACAAA	GATGGCGTGT	TTCTATGCGA	GCCCCCTTCAC	ACGGGCGTAA	AACATGTTTCG	180
	AAATGCTGCT	CGCTCTGCCCT	TGCGCTGCGT	GTGCCCTCAG	CCAGACGGTC	TGTTTGCTTC	240
	TAATGTGGGG	GAGAGTCGTT	CTACTCACGT	GTTTCAGCGTG	CTGAATAACT	TGCCATATCCT	300
	TACAGCTGCT	GACCTGAGGC	AATGCACGTT	TCCAAGTCCA	ATAGTCTACG	GGCCCCGAAGG	360
	TTGTGCGGAA	TGCACAGTGA	TCGGTAATCT	ATTACTACAG	CCCCTGCAA	GCGTACAGAC	420
	AACCTACAAT	GACGGCGCGT	TGTACAATAA	AATCAATTCC	GCTTGCTCGA	CCGTTAACCC	480
10	AAAGCTATAC	CGTACCCTTGT	GTCCTTCCCT	GTTTCCATTA	GCCGTTGCAT	GTGCTTTTTTT	540
	ACTGTGATTA	CAGAGCCTTT	CTGTAGAATG	TGTACGTGAA	TTTAATACTA	GAGAGCTATA	600
	AAGCTCTCTT	GTTCTTTGTAA	TGTCTGTTTC	AGAAGATAAA	AGGTAACACC	AGAAAACGAG	660
	GTACGACCCA	ACGGCTATTG	GACTACGAAC	TGGACAAAA	CTAAGAGTCG	TAAGTAAGAA	720

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1425RP

	GATCAGCTCC	CACCTTGGTTG	CAACAGTATT	GCTGAGACTA	TCATTCTTGT	AGAGCGATTTC	60
	TTGTGAAGCA	GTTGGCCCCGG	TGTATGAAAC	CGCGTGTTTA	CCAAGTGGAG	GCCTTTGTTC	120
20	AGAAATTTTA	GTTCTTCTC	GAACGTATTTC	GTGGTCTTGG	AGAATAAAGT	TTTGTGTGCTC	180
	GACATAGTCA	GGGTCAAAAA	CATTACACAGG	TGTGTTCATCA	TATGGCGGCC	GGCTGCCGGA	240
	GGTTGTGGGA	TCAGCCTTTTC	TGTTGGCTTC	CGAGTCTCCA	ACCTTCGAGA	TAGCTTTTGA	300
	TAAGTTGTAG	AAGTCGTCCA	AAATATCGTC	TTCCGCCGAGA	GGAGCAACGC	TCGAGCCCCCT	360
	GAACAGTGAT	CCACTAGAAC	TTCTTGCAGT	AGCCTCGCCG	TCAGCATTAT	TGCTATTGTG	420
	TGTACTGCTC	GAGTTGCGCA	GATTAGATAT	ATCAAACGTG	TTTCGATTGTG	TGGAACCTTT	480
25	ATATTTCATCA	TATGCTCCAA	AAGAATCTCT	GCTTTGCGGA	GAGCCTCGCG	CTGCATGAGG	540
	AGGAGGAGCC	ATAAAAGATG	AATCCCTGCC	AGGAGAGTTG	TGTAACCGCC	CAAATGGTGA	600
	TGCAGCGTAG	TTGTCATAAA	TTTGAACCAG	ATCTGCACGC	GACTTGATACA	GGTCCCTGGG	660
	GTTGTATCCT	GCCTTGGGGT	CGCCAACCTC	TTTAATGGAC	CCGAAGAAGC		

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1425UP

	GATCATACAC	GCGCTGCGCA	TACAGTTGGC	CAGCACCAGC	ACCCGCGACA	GCCTCCAACG	60
	GCTAGAGACG	GACACCGCAG	GCCTTGTCGC	CCACGACCTT	TCCCGCTGGG	CCGACAGCAC	120
	CAATGCATAC	ATAAACGGCA	CAGAGGCCTC	CGTAAATGCC	GGCCTCCTCG	GCTGGGTTAC	180
35	CACAGCCCAT	ACAGCCCTCA	ATACCACCGT	CGCCGCCCTG	CTCGCCGACA	TCGATTCCAC	240
	CGTCGACCGC	GCGTTCCGAG	ACACGCCACT	TCACCGCCCC	ATGGTGACCG	TTGTCTCCTG	300
	TGTAATCCGG	AACAAGTTGC	GCGCATCGA	CGCAGGCCTC	ACCTGGACCC	ACGACCACGT	360
	ACGCATCGCC	CTGCCGCGCA	TCCATACCGC	CCGCCTTCGC	GACGCTGTGC	CAGAACCAGA	420
	CCTTCCAACC	CATCCCGCCT	ACACAGCCGT	GCTCCAGTCC	CTCAGTGACC	GCTTACGTCA	480
	TTCCGTTGAC	CGTGTGCTAC	ATCAGTGCTG	TGCCGCGGTC	CGCATTGAAC	TCTACGTATC	540
40	GCTTGCCCTG	CTCGGCCCTC	GGATTCTGCA	GACACCTCTC	GGCTTGCCAA	TGCTGCTATT	600
	CAAGTCGCAC	TGCCGTGCGA	GGAACCTGCG	CCGCAGAATG	CCTTGAGCCT	AATTCTTACA	660
	TAATCTTAAT	TCGCCATTCT	GCTGCTCGAA	CACGAACCTC	GCGTTAGCCG	G	

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1426RP

	GATCTTCTCT	CCGCTCGACG	TCACTGGCGG	CATGCACGAC	GCCATGAACT	GCTGCTGCCG	60
	CTCCTGATCG	CCCTCGTGCA	CTGCTAGCCG	CGACTGGCCC	TCCAGAAACC	GGCCCATCTT	120
	GTTTCGATCC	TGCAGCAGCA	CCACCACATG	CGGAACCACC	GGCTGCCTGG	CTGCTTTCCG	180
	TAGCTGAAAC	GAAAGAAGAC	GCCCTATAGG	CGCGCTGCCT	AGCATATACA	CCCACGGGAC	240
	ACCCATAACA	GCCCTTCTAA	CCCTCAACCG	AGTCACTGAG	AACTGGCGTA	GTGCGCATCA	300
50	TCGACCTCGC	GATTTTTTCAT	TCTAGTGAAT	AATCCTTACA	CCGCCAACAC	AAAGGCAGCT	360
	TCACCACCAT	TCTGGCTCAA	CTAGGAGGGC	TGTCCGGCGA	ACCAGGAACG	CGTTACTCGG	420
	TAAGCGGGCA	TCTAGTCAAG	TGGGCAGTTG	CAGGCGACTT	CTTTTTGTGT	GTTATTTCAGG	480
	GTGTAGGATG	CTTGTTATAG	GGTTGACAGG	AGGTATTGCA	TGCGGCAAGT	CGACGGTGTC	540
	GCGGAGACTG	CACGAGCGAT	ACCGGATCCC	GGTGATCGAT	GCGGATGCGA	TTGCGCCGGA	600
	GATTATGCGG	CCGGGGGAGC	GGGCGTACCA	CGGGTGGTGG	AACGGTTTGA	GCAACGGGTG	660
55	CCGCAACTGG	TGCAGGCGAA	CGGGGAGCTG	AACCGCGCGG	CGCTGGGGGC	GTGGATCTTC	720

CA

1426UP

5	GATCTGCTCC	AGCGCCTGCT	TGAACCAATC	TCCAGAAGAG	TGTCCGCCTC	GTCAAGAACC	60
	TTGAAGTCAA	CCTCGGTAAA	GTACTTTGGA	CCGCAAGCCT	CGAGCATGTC	GATCAACCGG	120
	CCGGGCGTGG	CAACCACGAT	ATTGGGCCTC	CTGCGCTCTA	GGGATCTGAA	AGTTTCAGTC	180
	CGCGAGGAGC	CGCCCATCAT	GACAACCGCA	TTGAAACGGC	GAAAGCTTCCT	GTTGGCGTTG	240
10	CGCATCTCGT	TGATCTCGTT	GAAGATCTGC	GCGGCCAAGT	CCCTGGTTGG	TGCAATCACA	300
	ACAGCCTTGA	CATTTTCCGA	AGGAGGCCCC	TCCAAGAGCC	GCTGGAACAG	CGGCATCAGA	360
	AACGCAAGTG	TCTTACCTGT	TCCAGTTTTC	GCCCGTGCCA	CCACATCGTG	CTCCGTCTGC	420
	AGGATCGGCT	TCAGCGTCTT	CTGCTGCACC	GGTGTTAGTT	TATCGAAGCC	GCGTGACTGC	480
	AGCATCTCGT	ACAGCTCGTT	GCTGAGCACG	CCCTCCTCCA	CCAAGGTCCG	CGGTGTGCTT	540
	TCGACCCCCG	CAGCTTCGTC	GGCCACACGC	ACCACCTCGG	TGTTGGGGCC	GAGGCTGAAT	600
15	CCCTCGCGCG	CCGCGCCGTC	TGTACGGCCG	CGTCTGCCCT	GTGGCTTCCG	CCACATGCCG	660
	CCGCGGGGAC	CACGCTCACC	ATCCTCCCTG	TCGCTGCCCC	GCT		

1427RP

20	GATCTTTCTA	TCCGGGAAAAG	AGTCCATCGA	ATACAAGGTG	CTTCTAGAAG	GGCCCTATGG	60
	AAACACCATT	CCGCGGCTTG	CTGCTCCTGA	CCGGCGCTAC	GTGGGCGCCA	GCGCAGGTCT	120
	TGGCGTAGCA	GCGGTCTACC	CACACTTCGT	CTCTCTGTG	GACAAGGAAA	GCCAGTTCAC	180
	CCATTCATTC	TACTGGATTA	TAAATGACCT	TTCATATCTG	CATTGGTTTT	CGCATGAGCT	240
	GAGGTACCTG	GCGGACCGGA	ACTGCGACAT	CAAAATTATT	TACACGAGGA	GCAATGAGTC	300
	GGCTAAAGAA	CTGACCCGAG	ATGTTGCCGA	TTCCGCCTCT	GCGAAGTTTCG	TGGATTCTGT	360
25	GGATATCTGC	AGGCTCCTCC	TGCGCCGAGA	TCTCAAAGAG	ATCGTGGAAG	AGCAGATCCT	420
	GCTCTCGTCT	AACCAGGCAC	AGGACGTAC	GTTTATTAGC	AGCGGCCCTT	CGACCTTTAA	480
	TGACCATTTT	CGCTATGCTG	TGAAATCTAG	CATCACGGGC	AAACTCCAGT	GTGATGTCTGA	540
	CCTAGAGGAG	GAAAGCTACA	CCTGGTAGAT	AGATACCATC	TTATTAGTTA	ATTGTACTTA	600
	TTTATTCTCT	TTCTGTATC	TTAAGCAAAT	CCCGCCATGT	CTCAACCAGC	TTCTGCATGC	660
30	TTTGCGGATT	GAGCCCTGCC	TCGACCACGT	CCAGAGGTAC	CTGGTTTTTC	G	

1427UP

35	GATCATCTTG	TCCATGCCCT	TGGGGCCCAG	CGACGTTCTG	ATCGCATCCG	CGACTGCTCT	60
	GGCAGCAATA	ATGTTCCGCT	TTCTCACTTC	CTGCGGCTTC	TCGCGGTTTT	TGAACGTCGC	120
	ATTGCTGGCA	CTGACCTTCG	GTGGCATCTT	AATATACTTC	CTGATTCCGC	GCCCCAGAAG	180
	CCTTACTTGC	TGCTAGAGAA	GTTAAGGTTG	TTTGTTTATG	CTGACAACGC	CTAAGTTACC	240
	GTCAAACGAT	CAGATTTTTG	CCACTGGAAT	TTCCCTTCGT	ACAAACGGAT	ACTTGATCCT	300
	TTGATCTCCA	AGAGCTGTTT	CATCGGGATG	GCCTGCTGAG	TAGTGCCGGG	TTGAAGGGAA	360
	AATCGGGGCT	CGACAACCTG	GGAAATGTCT	ACGGAGGACG	CGGCGTTAAC	AGGGATCGCG	420
40	GTGACGGCAG	AGCTCAAAA	AAAATGCGCG	TTTTCCAGCT	GGTATGAGGC	GTTCAAGGGC	480
	CACACTCCGC	GGGCCGAGGT	GATTGCGCCG	CTGCCCGAGG	AGTTCGTGAG	CTACGTGGAT	540
	CAGCGCGGGA	TCAGGCTGGC	GCGCGAAGAA	GGCTCGAAGT	ATTTCTACGG	CCAGGAATGG	600
	AGCCTACGAC	GGACGGAGAG	TACAGCGACT	GGGAAGGCGG	CGACAGCGCG	AGTGAGCGGT	660
	CGTTCGTGCC	GCTGGACCGG	TGGCGGACTT	CCCGGAAGTG	CACGCGCGGG	TGAAGCAG	

1428RP

50	GATCATAAC	GCATTGCAGG	TATACATTAT	AGTGCTCATA	ATTATCGGAT	TGCAAAATAGA	60
	ATGGGGCCCT	TACCGTAGTA	CTGTCTTGTT	AATGCAGCGA	CGCTCAGGCT	TAAAGAGCTT	120
	TTTGTTCTCC	GTGTATTACT	AACAAAATAA	TTTCCTCGAG	CACAGGGAGT	AGAGATGAAT	180
	TACATAATCC	ATATGGACAC	CTCGTCACTT	TCCAGCGACA	TTAACATTTT	CTTATGAATG	240
	CCCAATAATG	GTGCCATAAT	GATGTGCTTG	GTGTAATGCG	CATTATAAAA	TGTATGTGGA	300
	TTATATATTG	TTTGTAGCAT	CTAGTAGAAC	CATGGTAGCG	AGGTCTTTTG	CCATACCCTT	360
	CTGAAGAGAG	ACATAGCAAC	AGTGCTTTGT	CGACAGAGTC	TGCCGTGCGA	TGTTGCCTTG	420
	AAGTAACCAT	GAGTACCAAG	ACTCTCCTTA	ATGAAGCCAG	AGCGTCCAGA	TTTCGTGAAT	480
	AGTGGGATCG	ACTTGAACCA	CTCGACATCT	TCTGGCCTAA	AGAACATATA	GCGCACTGTG	540
55	ACGACGCGCT	TGTGGAACCT	GAATGGATGG	CCAGTTAATA	TGATTCTCTT	GGCCAATATC	600
	CGTGTGTGGT	CTGCGTTTCT	GAACGTGCCG	TGGCCCACGA	ACGTCAGGCC	CTTTGGGATCA	660
	GAGGGGTTTT	CTTTGAAAGTA	GATGGCCGGT	GACTGGGTCA	GGTCCAAGGG	AAGCATGCAT	720
	GTC						

1428UP

	GATCAAACCA	GAGTGCGAAG	CGCACACGCG	GCACTGGCGG	GAGCCCTTAC	CGTAGTTTCT	60
	TGGGTGGGAG	AACCAAAACGT	TTTCGTGAGC	CATCTTGTCT	GCAATGCGTT	AGTACTCTGT	120
5	CTGACCGCTT	GGAAAGCGTC	CGGCCCTCGT	GAGCTGCCCA	CACGCTCGGC	GTCTCGGGCG	180
	TCCTCATTTGC	CCGCACCGTA	TTCTGCTCGC	ACCGACAGCT	CTAGACCACA	CTTCGCCCCA	240
	TCCTGTGCAC	ATACGATTAT	GCTTTGTCTC	TTGGTATTAT	CCTTAGATTTC	GCTAGACTTC	300
	GACACTATGG	TTATCACCAC	TGTTGAAGTC	TGCTTCGGTT	GGCACCCAAA	GTCTCGGGAC	360
	TGTAGTTGGA	AAGCGCAGTT	CGCGGCAAAAT	CAAGCATCTC	ATAATGTGTG	GGTGCAACCG	420
	TTGAAATGTGT	GGGTGCAACA	GTCAATTGTA	ATTTCTTTTT	TTGATCGAGA	GATGGGATGC	480
10	GATGAGCTAG	TTGAAAAATT	TTAGTATGGC	AAAACTGGCA	TGCATATCTG	AGATGGGCCA	540
	TCAATTGCGG	CAGCTTAGTG	TTAGACGACC	AATCCAGAGG	TGGTAATTGG	GCTATGGCAG	600
	GTCACTCGCA	CAGGTGCTCG	GTAAAAAAGG	GCCACAAAAC	GTTCAAGTCG	AAGCATGCGA	660
	GCAAGGGCGC	GTTGAAACGG	CTGCACAAGG	GCAAAGTGGA	ACAGGAGACC	GCTGCTGGGG	720
	TGAAGG						

1429RP

	GATCAAAGTT	TAGCATGTAA	ATGTGCAACA	AACTATTTAT	TACCTCTGCA	CTGCCCATGT	60
	CGCTTGAAAC	CGCCGAGGAT	CCAAACCAGT	GCTTTCATAA	TGGAATTGCA	AAATTGAGTG	120
20	CAGTAATTGA	TAAGTACTTT	GAGAAAAGCC	CTCCCGACTT	TACCCTAGAT	GATTGCTTAA	180
	TATGTTTCAA	AGCCTCCGAG	TTAATAAAAA	GGCTTGCTAC	ATCCAAGGTG	CATATAGATG	240
	TGATAGATGA	GACTAACAGC	ACCATTTCATA	AAAAGCGGAA	GCGCAATTTT	CGAATCACAT	300
	CACCCAGAGC	AGTATACACA	TCCATTTGGA	ATGTCGTATT	AAGAAAGTTG	GATAGCGTTG	360
	TCGACCAAGG	AAAGGTAGAA	ACCGTCCAAT	CCTTTGATCA	GATACTTGAG	AATTTTCCTTA	420
	TTAACTTGAA	AGAAGTCGAC	TTTACTCTAT	CTGGGGTTGC	TCTGATGTAT	AGCACTATTG	480
25	ACTACTGGAA	CCCCCACATG	ATCCCAGGCT	ACGGCAAAGT	TACGACTGTA	GAGCATTTC	540
	TGGTGCAGTA	TATCTTACAT	CGATATGAGG	TATTATATGT	GGCCGGCGAT	GAAAGCCTAC	600
	TAGATAGTCT	GGTTGGTGCC	ACTATTCCGA	AGCTATTTGA	ATGCATGCAG	TCACAGCATG	660
	ACCACCAGAG	CCTGGTAGCG	AATAGCCAGG	CTGATACCGC	ACGAAGAGAT	AT	

1429UP

	GATCAACCGA	TAGCGGAAGG	CGGACGAGCC	TCGGAAATAG	TACTAGGCAG	TGGTTGGCTT	60
	TTGTTTTTAG	CTGTGTTTCA	AGATGTCAGC	GAGAACAAGC	AGGGAGGCAG	GCGCCTCCAG	120
	GGTGATGGGA	GGTCGGAGTA	GTATGGATGG	AAAGTCCGGG	ACAGGAACAG	GGTATTTGGA	180
35	ACAGCTGAAC	TCGCCAAGCA	TTTCAAGAGCT	CATGCACTCG	GACGCTTCCA	CGACAGCACT	240
	ATTGGAGAGG	TTGAAGATGT	CCCTAGTGAC	TTGCGTGGAG	TTTACGAAGT	TCATAAGAAA	300
	AAATACCTTG	CTAGAAGAGG	GCCATGCCGA	GGAGATGGGC	AAGGCTTATA	AGAACTTCTT	360
	TCCGGAGGGC	GGTGAGTGCA	GCTTGCGAGAA	TAGCATACAT	AAGGTTTTTG	AGTATGACGG	420
	AAAACCTTGC	CAGGTGAAAC	TTTCATATGT	TGCTGCGTTG	CAGAAGATGT	ACGATGAGTT	480
	AACGTCGCTT	CTTGCAATCA	TGACTAAAAAT	GCGCAAATCC	CTCAAGGAGA	GCAGTCGGCG	540
	GTTGGAAAAA	GAAGTCGCAG	ATGCTATACA	TAGCGCCGAA	AAGGCAAAGG	CAAGATATAT	600
40	GTCTTTGTGC	ATGGATTGGG	AGAAGCTCAA	GCTTGTAGAT	CCTGCAAAGA	CGAAGTTGAC	660
	ATTGCGGGGC	TCAAAGACCA	CTCGAGAGCA	GGAAGAGGAC	TTATTAGAAA	GATTGATA	

1430RP

	GATCGCAGAG	AGACACAATG	TCCCTGTGCC	CACTTTGTCT	ATGCTTTATC	ATTTATTGAT	60
	TCCTTGTCAG	GGGAAAACTG	AAGGCCCAAC	AGGGAATTGT	CAACCATGTT	TAAACTTTTC	120
	CATGTGCATG	GAGCTCCGTA	TGTAGCAATA	TATTCTCATA	GCTAGAGATC	TCACATATATA	180
	TTAGCTTTGGC	ACATTTATGT	CATATCGACG	TTTCGTTTTG	TACACCTTTG	TGTCAGGTAG	240
	CAGGGGCGCG	ACATAACTAG	TTATAAAAAAC	GATGCCGCCG	GAGAACGAGA	TCTACTATCT	300
50	CTCTGAGTAG	GCACAGTTTC	CAACGTATTA	GTCCTTAATG	AGCAAGCGAA	TCATTCAACT	360
	CATACTTCTC	TCTGCCTTTG	CGCGAGCTAA	TTACGTGGAG	CCCTTCAAAAT	CAAAATCCATA	420
	CATTGCTTGC	TCAGAGGCAA	GCCATTGCCC	AAAGGAATGG	CCATGCTGCT	CGCAATATGG	480
	ACAATGCGGG	AGTGGGCGCG	TATGCAATTAG	TGGCTGCAAC	CCAAAATTCT	CGCATAGCCC	540
	TGAGAGCTGC	GTGCCAGTGC	CGGCGCTACT	ACCGCAATTG	GAGATAGTGG	CCAGCGATGA	600
	TAAAGGAGTA	TACCTAGAGA	TGTCGGGTCA	GCCTGCCTTG	GTCACAAAGT	TCCAGCGCAA	660
55	GAGCTCGGCG	CAGTTGTTGG	AGGTACATCA	CGAGGAACAG	CAGTATGGTG	TGTCGGCATT	720

AGAGCAGGAC

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1430UP

	GATCGATTTG	GTTACCTTGT	TGTCCAACCC	ACGTACTTCA	AGAGATTCCG	ACGCAGAGTT	60
	GTAGACAGCG	TACCTATTCC	GAGCGACAAA	AGTCGCAAAG	CTTCCCTTAT	CCTCAACTAT	120
5	ATTTGTGGCA	TCAACAGCAC	CGCTAGCCTG	TTTTGGAAGC	AGGCAAAGAG	CATACCTATC	180
	GCCATCCCTG	CTACTTGAGT	TCACGAGGAG	AGAGTGTTCG	GAGGGATTAT	AAGAGATGGA	240
	CTTGAACACG	TTATATGGCT	TTCCAAAGTT	TTTTAGAGAA	ACAAATGGCA	GAGAGGACAC	300
	CTTCTTTTCA	TAGTCAAACA	TTTGGACCTG	CTTCTCTTTG	TTGACAAAGT	AAAGCTGGTT	360
	CTGGTTTCACA	GCCACAGGTG	GTCTCTCACG	GTCCAGTTTA	AAGACCATGA	TACCCGAGTC	420
	ATGCGCCGCG	CCAAAGAGGT	TCACATTAGG	GTGCGCCCTA	ATCGACCAGA	ATCTGTCCCTG	480
10	TTCTCTTTTG	AACTGTTTTA	CAGGAGTGCG	CTTGCTTAGA	TCCCAGACCC	TAATGGTAGA	540
	ATCCTCGCCG	ACAGAGATAA	TTAGGTTTTG	AAATGGGTGA	AATATTACAC	TGTCGACGTT	600
	GTTTCGTATGA	CCCTGCACCT	GTGACCTCC	CACGCTTTGG	TGGAGCTCAT	ACGCCACAAC	660
	TTGACCTGTC	TGCTTTCAGA	ACCGGAGACA	ATCAAGGGCA	GAATCGGATG	GAACGAAGG	

1431RP

	GATCATGTTA	TACAGACCTT	CAAAGTTGAT	ACCAAAACCC	TCAATGGACT	CGCTGACCAT	60
	ACTTGGTACT	TCCTGTTTAG	AGGCCCTGCG	GCACACTTAC	TGCCCTCTACA	AGAAAAAAGT	120
	GTGGCCTCTG	AATTGGATCA	CCCTTTTTTCG	GACACTAACC	ATTTGCAATA	CAATGCTATA	180
20	TTGCCTCTAT	CAATGGTCTA	TTGACCTTGT	TGAATCCAAG	CTCGAAATCC	AGCAATGTGT	240
	AGAGATACTG	CAGCATTTTCG	GTGAGAAATG	GGTTTTTTGCC	AAGGAGTGTG	CGGTCGTCTT	300
	TCAAAATATT	GGAAATGCGA	TACTAGATAT	AAGTCTCTCC	CGAGGACAGG	TAGAAAACGT	360
	TGATAAATTG	ACTAGGGAGC	TATTTGGAGC	TAGCAATGAA	TACCAAGATA	TATTGGACGA	420
	AAATAACGTA	GATATATCCT	GGATTGACCT	GGCTATCTAA	TTTCTGAAAC	CATTGAGAAC	480
	CTGTTTTAAAC	TATTTGGCAG	TAATTCATAA	TGTATTGGTT	GTTCCATAGC	TGAATTGCTA	540
25	TTGCCGCTAT	GGAGTTGCTT	ATGCAATACA	CGGGTTAGTG	GGTGATTGTC	GTGTTCTTAT	600
	ACCCAAACTA	ACCGAATCCG	GTCTTAATCG	ACTCCGGTAG	ACTTTGTTCAT	CCAGTAAGAC	660
	ATGTCTTACA	CGCCCGATTA	ATGGTTGTAA	TCTTTAATCG	ATGAATGAGA	AATGGTATAT	720
	GTATGTGACT						

1431UP

	GATCTCCTGT	ACCATCATGA	AAGTCTTTTT	ATCACGGGAA	AACCCGTTTC	TCAGGCACAT	60
	CTGACGCAGT	GCTTGTCGCA	CATCAAAGGT	CAAGTTCCGA	TCCCTTGTGA	GCGCTTCCAA	120
	CTCCCAAGAC	TCCTTCTGCA	GATTTTTTAC	TGGGCGCGGC	ACAACTTCTG	CCTGCCCTCTG	180
	GGGCACATAT	TTCTTTAACA	CCTCCTTCGG	AATCTTAAAG	TCCTTCACAT	TATAGCGACT	240
35	TACGAGACCT	TCGAATAAGA	AGAGGCACTT	TATATATACG	TTTGACATAT	CCAGTTTCAT	300
	CTCGCACCCC	CGCACGATCA	GGTCCCGGTA	GTCCAAGTGC	GCCTTTCTTC	TTGAATTCTG	360
	AGAGCTCGCC	CCCGAGGATG	AGCCTCGCTG	ATCAGAGGTG	CCTGTCCTCA	GCGAGAGCTG	420
	TGGCATACTC	GGCTGTGTGG	CAAGCTCCAC	CTTCACCTGC	TTGGCAAAGT	TCACATTTAG	480
	GCCCTGCGCA	AACGCGTCCA	GTCGAGCGAA	GATATGGTTC	ACCAGCTCGA	GTGGCATCGC	540
	CATCTTGTTT	ACGTCCAGTG	ACACGTTCCC	TTGGCCTAGC	TGGTGCACTA	GGGCCGCGCT	600
40	CTGTGTGAGT	TGTCGCTGCC	ACACAGAGTC	CAATTCCACT	CGCATCATGC	GCATCGCGTG	660
	CTTCAACGCA	CGCTCACTGA	TCTCCCTTCG	CTCAGGCATC	TGTGGAGCCT	CTTCTCGGCT	720
	TC						

1432RP

	GATCCAGGAC	TGCCGTGCTT	GGTTGCGCTC	AAGGGAGACT	TAGAAATGAG	GTGTTGGGCC	60
	GCATTCTGCG	CTGCAGATAG	AAACGAAGAC	AAGATGCCAC	CGTTACCCAA	TTCTCAGCC	120
	CCAGAGAAAA	AATTCCCGTA	CCGGTGCTTC	CCAGTACCAT	CCTGGTCAAA	GGGTGTGATA	180
	TCCGAAAATT	TATCCTCAGT	GTCTCTCTTG	TATCCTGCAT	CCGAGCGCGT	GCTTTGGCCC	240
	GCCCCGCGG	GATCGCCGCC	CGCGCCAGAC	CGCACATGCG	AGTGCCGCGC	GCTCATCTCA	300
50	ATTGGCATGC	TGAGCGACGA	CGAATTGCTG	TGCCCCCGC	TATGCCAGCT	GGCGGCGTCC	360
	CGGCCACCCC	ACCCAGGGCG	GAGCGACGAG	TTTGTGCTGT	TGCGGTAAAC	CACCGGTCGC	420
	GACATGAGCC	ACGATTCTGC	TCCTGACACC	CGGCTCTCCA	CATCCGAGCC	CTCCCCCGCC	480
	GCCACCTCGA	CATCACTCGA	CTCCGGCCCC	GTCCGCGGCT	CCCCATTCCG	CGTCGCTACC	540
	CGTCTTTTGG	CACCTGCTCG	GCGCCCCCTT	CGCCGCCCC	CCCCGTATG	CTTCTTGAAA	600
55	AGTGCCGCGC	GCTCTCTCTG	AGCGACCGCG	ACCGCTTCCG	CTGCTCTGCC	ATCCTTGCTA	660

GCCTCTGCCT GAGAAGAGCA TCTACCTCTC CTCCCTGTTT ATTCCGCCGC CTTTTTGCGA
AACA

720

1432UP

5	GATCCCGGTC	GGCCGCTCCT	CCTCGAACAT	GTCTGTACC	CCGCGCAGCG	GCTGGAACAT	60
	CCCCCCCACC	CCACCGTACT	GCCCCGGGAA	GAAGTGTGTG	TCCACCAGCT	GTTCGTGGCG	120
	CGCCTGGTCC	GGCGGCCGCA	TATTCCTCTC	CTCCTGGTAA	GCCTCCTGCT	GCAGAGACTC	180
	CGCCAACTTC	TGCTGCTCGT	ACTCCGCGGC	CGGCGCGCG	CTTGCAAGCC	CACTGCGTGC	240
10	GCCAGCCTGC	GTGTCCCGCG	CGTGCTCGAA	GTACAGCGAG	ATTGCCGTTT	CCACGTCGCC	300
	ACCTGCCATA	TCCAGGAACT	GCCGCGCCAG	CTCCGCGTCG	GCCACACCGC	AGATGCTTTG	360
	GAATACGCCG	AGCTGCTTGT	CTGAACTCAT	GCTCCTACTT	TCTGGCGCTG	CCGTGCTGTG	420
	TGGCACACTG	AGGAGTTTGT	CTGACGTTGT	CGCTGGCTCC	AGCCTTTTAT	ACCGGCGCGT	480
	GCCACACATG	CGCCGCGCCC	AAACGCTTAT	ACATATACAT	GCTACTTAGT	CCGCCGCTTG	540
15	GTACCCCGCC	CGTCTTCGAA	GCGCGTGTGC	GTGCCCTGGA	AGTGCACCGG	CTGATCGCCG	600
	CGCGCTCGGG	CGCCG					

1433RP

20	GATCGATGCG	GACCACCGTG	CGGAGGAGGC	CGCAGGTGGA	TATGCAGTTT	GCGGCGCTGA	60
	GCGCGCCGAT	TTCCGAGAGCT	CGCGCGTCCG	CTGGCGTGCC	CGCTTCGCGC	AGCCACGGAA	120
	CCAGCTGACG	CGAGGTGTCT	CCCCCGCGGC	TGGCCGTTTG	CCCGACAGTG	CTCGCCGCTT	180
	GGTAGTTCTG	TAGCCACAGC	GGCCCCGTAA	TCTCGGCCAT	TACGTAGCCG	AGCATCTGCA	240
	CGAGCAGCGG	CGACTCGCGC	ATCTTCTGTA	TTTTGAGCAG	CTCGCGCTCG	ACCTTCTCGT	300
	CTGGGTGCGC	CATGTCCGCG	CCCAGCCGGT	ACTGTTCTCT	CAGTCCAGCG	TCTGTACAGT	360
25	ACCGTGCTAT	TTGCCGCTCG	TTCAAGCACTT	CGTCATTCTC	AGCCACCGGT	ATTCCCAGGA	420
	GCTTGCATAT	TGCCCGCCGT	TTCTGTAGGA	GAACGTGGTA	GCGCCGGATG	ACCTTACGTG	480
	CTTTGGATGG	TTTGATTGCC	GGCGTATGTT	TGACGGCGCT	CTTGCCCCGTA	ATGCTTCTTC	540
	GCTTCTTGCG	CAGCATGTAT	GAAAGTTAAA	CCGCAGTTAC	TACTGGTACT	AGATATGCCG	600
	TCGGAAATGCC	ACCCGATGAC	CTGCTGCTGT	ACCTTGCTTT	TGTCATCACG	ATGCTTCGAG	660
30	CTGAATCGTT	GAAGAAATTC	GAGTGAAA				

1433UP

35	GATCACGGAA	GAAGGCAAGG	TCAAGAAGGT	TACATTTGAT	ATCGAGCCGT	ACAAGCCCAT	60
	CAACACTAAG	CTATACAAGT	GTGACAATAA	GTTCCGGACG	GAGGTGCTCT	CGGAGCTGCT	120
	GGAGGCTGAC	GAGAAGTTTCG	GGTTCAATGT	GATGGATGGT	CAGGGGTGTC	TTTTCCGGTAT	180
	GTTGTCCGGT	AACACCCGGA	CTGTTCTACA	AAAGTTCACT	GTGGACTTGC	CGAAGAAGCA	240
	CGGTAGAGGT	GGTCAATCCG	CGGTGCGTTT	CGCCCCGTTT	AGAGAGGAGA	AGAGACACAA	300
	CTATGTGCGC	AAGGTGCGTG	AGGTGGCAGT	GCAGAACTTC	ATCACAAACG	ACAAAGTTAA	360
	TGTTAAGGGG	CTAATTTTGG	CTGGTTCTGC	GGACTTCAAG	ACGGACTTGG	CCAAGTCTGA	420
40	ACTGTTTGAC	CTGAGGTTGG	CAGCCAAGAT	TGTGAAGATT	GTAGATGTAT	CGTACGGTAG	480
	TGAAAATGGT	TTCAACCAGG	CTATTGAGCT	GTCCGCCGAG	GCGCTGGCCA	ACGTTAAGTT	540
	CATTACAGGAG	AAGAAGTTGC	TCACCCAGTA	CTTTGATGAA	ATTTCCAGG	ATTCCGGCAA	600
	ATTCTGCTAC	GGTGTGACG	ATACTCTGAA	AGCGCTAGAT	TGGGTGCGGT	GGAGAAATTG	660
	ATTGTGTTTG	AAAATCTAGA	GATTGTTCGG	GTACGTGTTT	AAGACTTCTG	AA	

1434RP

45	GATCAGATGC	TTCTGTGGTC	CTAGAGAAGA	CTGCTATTCT	TAACCCTTCG	TCAACGAATA	60
	TAGCCGAGGA	CGAGTTTGTG	GATGCCATAG	CGGAACCTCC	ATCGGCGTCC	GTGGATAGTA	120
	CGCCTTATGT	GACCGCGGCG	CGCGATTATT	CCTCGGAAGA	CACCGGGGAA	CGTTCTGAAC	180
50	CTACAATAAC	GGAATACAAA	ACTGCAATTG	AATCACCATC	CACCTTTGGC	GACGATAACG	240
	AGAGTGATTT	TCTTGTAACT	TCTGCGGACC	TGCATCCATC	GGTGTCTCTT	GCGAGTCAAA	300
	CATTAACAAC	GGAAGAGCTT	CAAGCCGTTG	CGAACAAGCA	CCAATATAAG	ACCGAGGTGC	360
	AGATTGTAAA	ACAAGACGAA	GATGAAGTAG	AGGATGTTCT	AGAATTGGAC	TCGCCACCAG	420
	CATCTCTGTA	TGATGGTGAT	GTTTTGAAGG	AGGCAGAGAA	AAATGATAGT	AGCAATGTTA	480
	TTCTTGATGA	TTCCATAGAT	ATCGATGAAT	ACCTCGATGA	AAACTTGGTT	AAAACTTCA	540
55	CATTGGAAAA	CGCTCTTTCT	TTAGATGAAA	TCTTCGACGA	TGATAATGTA	GTTTTTGGAG	600
	AAGAGAAAGCT	GCTTGTGGAT	CCAGACCTAG	AATCCCGGA	ATTAAGTGA	ATGGAACAAG	660
	ATATGGAATC	TGACTATCTG	CCGCTGATTG	AAAAATGGTAC	GGAGGCTGTT	CTACAA	

1434UP

	GATCAGGTTT	TCCGGTACGT	GAGAACGTAT	CTAAGGCACA	AAGGGCTTTG	GGCGACTGTG	60
5	CGGACGCTTG	AGTTGCGAGA	TACAGGACAA	AGCTGTTACG	GCGGCAACTG	GTGCAGCACG	120
	AGCAGCCGAG	GAGCGATTCT	GCGCGAAGCG	ACGGTGAATT	CGAGCCAGCT	GGTAGCAGGA	180
	GTGCCGGATC	GTCTATTTAG	TTGCGACGGG	CGTCCGGAACA	GGATGCACGT	AAACGTTGCG	240
	GTAACACGCG	ACGCTGACGC	GACGGCTGCT	ACGCCGATAG	CACGGGAGCG	CAAACGACGG	300
	CAGCCGCTGT	CGCCAGAGAT	GTCTTCACCA	CTGCGCGGTA	GCAAGCTGCA	GCGGCGGAAG	360
	CAGACACTTG	AGGCCGGTCC	GGGTCCGCGC	AGTGGGACAC	ACACGGTGGA	CGAGCTGGCC	420
10	GCGCAGCTGG	AGCGCGGCTG	CGAGCAGGCG	TCCGAGCGGA	AGCCGCCGTA	CTCGTATGCG	480
	GTGCTGATCG	GCGTTGCGAT	CCTACAGTCG	CAGGAGGGCA	AGCTGACCTG	TCGCAGATAT	540
	ACCGGTGGAT	CTCGTCCCTC	TTCCCTTACT	ACCGGCTGTG	TGACGCGGGG	TGGCAGAACA	600
	GCATCCGGCA	CAACTTGTCG	CTGAACGAAG	CGTTTGTCAA	GGGCGGCAAA	TCGCTCGATG	660
	GCAAGGGCCA	CTTCGCGGAG	ATCAAGGCAC	TGTGAAGGCG	CTTCTCCGCG	ATGGG	

1435UP

	GATCCGATGC	TACCCGTCGC	CCTGCCAACC	CGTTTCGCTA	GCGTTGACGC	CTAGGTCTGA	60
	AACTGAACAA	CAGGTGGCAT	TGTGGGCGGG	CCAGCAGGCC	CTGGCGCGAC	CATGCCGCCA	120
20	TGGGCGGCGA	ATAATACCAC	CAGTTGTGAA	GCCCAGGTGT	CTGTAATCTG	CACCGAACAT	180
	CTTTATCTAC	CAAGGAGGAG	CCTTGAAAAAT	TATATATCTA	CCCTTCCCCC	TAATATATTT	240
	GACCAATTTC	CTCTCCGGAA	ACCGAATGAT	CGAAGACGCC	ATCAGGGCAG	CGGACAGCAC	300
	AGGAAGTGAG	GAGTGATCTC	GCAGGTACGA	TGGAAGCACA	GTCTATACAG	TCTATTCCGT	360
	CGAACCAAAAG	CGTACGGAGC	ATCSGAGCA	CGAGCGGAAC	CGCAGACGAG	TCGCTAATCT	420
	TTGAACGGAG	CGTTGAGGAT	CGTTTGGCCC	CGTGAAGGAC	GCGAAGGGTT	GCAGCCTGTG	480
	TGGTGTCTCC	CAGGCAGGGT	CTCTGCACGC	CGGGGTATCG	GCGACTGGGG	GCGCGTCT	

1436RP

	GATCAACCTC	GGAAACGTAT	TAAAAAGCTT	GTACTCGACA	TCATTAAAGTC	TTCTCCTCGT	60
30	TTCTTTTGGT	AAAGTATWAG	CATCCAGTAA	AGTAACAACG	AAATGCAATG	CTGAAAGATC	120
	GTATACCCTA	GACGACCTAA	ATGGGGTATT	TTGATCATCC	ATACTAGCTT	GAAGATCAAT	180
	GAAGTCAATA	ATAGTGTTGA	CAGACTCAGG	GGAGAGTTTG	GACTTGATGT	ATTCCTCAAA	240
	GCCAGTCCAT	CCCACCTTCC	TAGCACTAGG	AGTAATCTTC	AGCGATTCTT	TAAACGGAAT	300
	ACTTCTGATA	AAATCCTCCA	GCTTTTPTTC	CTCGTAAAGG	ATCTGTACAA	AATTAGCAAG	360
	CGGGGTGGTA	TCCTTGTTAA	TTATGATTCT	TCCAACTTCA	ATGACCTTGT	GGTTGGGGAT	420
35	TTTCTTGATA	AGCTACCCAA	ATACCATCGG	AGATTTTTC	AATACTTGGA	CCATTAGAGT	480
	GACCAATAGT	TCGTTAATAA	TCGCCTTATT	TTCAACCATA	AGACTGAAAT	GCTTCGTTTC	540
	TGAGATCAAA	GTCAAGGCCA	AATATTCGGG	AACAATATTG	TAATCATCGA	AGAAACAATC	600
	ATGGAATAAT	TGGAACATAG	GACTGGAGCC	AAACTCCTCT	CTTGATAAGA	ACAGTTCAAT	660
	ATCGAGCTTC	GATACCGATG	TGAGATATAA	CAAGGAGTTC	TTTGAGTTTG	GGAGTACTTT	720
	AGAGACTT						

1436UP

	GATCCAGAAG	ATTATCCGAC	AATATTAGTG	ATATCAAGGC	ACAGATCGCT	GCCAACACTA	60
45	GAGGTATTCA	ATTGCTTAAC	CAACTGGTTG	ACGTTTTTCG	TCTAGGGACT	GTTACAAGGT	120
	ACATGGACGC	AATTTCAGGAA	AATGCAGCTC	TTACTGTAAA	GAATGTCTTG	CGAAAGATTA	180
	CCAAGCATTT	TGGCAAAACC	GTCTATTCCG	COGAGGATTA	TATGGATGAT	GGCTCTGTTA	240
	TAAAACTTAG	GGTGGAGCTA	AATGCTAAGG	AAGATAAGTA	TATTTTTGAT	TTTACGGGGA	300
	CTTCTCCACA	GGTCCACGGT	AACCTCAATG	CACCTGTTGC	TATTACCAAC	TCTGCCATCT	360
	TATACTGCTT	ACGTTGTTTT	GTAGACGAAG	AGATTCCGCT	CAACCAGGGC	TGCCTAAAGC	420
	CCATTACTGT	TATTATTCCA	GAGAGCTCTA	TCCTATGGCC	GACCAAGGGT	GTGCGGGTAG	480
50	TGGGAGGTAA	TGTCATGACG	TCTCAGCGTG	TAACGACGCT	AATTCTCAAA	ACTTTTAAAG	540
	TCATGGCGGA	CTCCCAAGGA	GACTGCAATA	ACTTTACTTT	TGGGACAGGT	GGGAACGACG	600
	CTTCTACCGG	TGAATATACT	CAGGGTTTTG	GATATTATGA	AACCATATGT	GGCGGGCATG	660
	GTGCAGGTGG	AGATCATGGC	GTGGTCCGGG	GTGGCATGGA	ACACATCCTG	TTC	

1437RP

5	GATCGCGCGC	GAGCTATCGC	TTCCGCGCGT	CAAGCTGCAC	TGTAGTATGC	TCGCGGAGGA	60
	CGCCATCAAG	GCCGCCATCA	AGGACTACCG	CAGCAAGCGC	AAGGCGACCG	AGCTGCGCTG	120
	AGCGCAGGCC	GCCGCAGCCT	GTCCGGCGGCC	GGCCGGCGCC	AGCCGCAGAG	GGACGTCCGC	180
	GGGCCGGCGA	GAGCCGCCCG	TTTTCTATGT	AGCGACTCKA	GCATCTAATA	GACATGGTAA	240
	TAGCTTCTCG	TTTTCTACGT	TTGCACACAG	TATACAAAAT	TTTCACGCAG	CTCATCGCCA	300
	CTTCCACTTG	CTGAAGCGCA	GGTACGGCAC	CAAGACCTCG	GCTATGTCCT	CGACTCTCTT	360
	TGACGACATC	TTACAGATCC	AGGAAGTGGA	CCAGGGACGG	TACAATAAGG	TATCGCGGAT	420
10	TGAGGCCATC	TCCACGTCCG	AGGACACGTG	CAAGCTGACG	CTGGATGTGA	ACACAGAGCT	480
	CTTCCCGCTG	CAACCACAAC	AGCAGCTAAC	GGTGATGCTG	GCGACGACAC	TCAACCTCGA	540
	CGGAACGGAG	GACAGCCACG	GGTCCTGGCG	GCCTCCGGCC	CCTGGGG		

1437UP

15	GATCCGGCGG	GACCGCTACA	ATATTCCCAT	ATGTATTAYA	GGCAACTTTA	TACCCATCTC	60
	CTAAGTGCAG	TACGTACTGT	TTGTCACTCT	AGCGTCTCGC	TCGCGGTGAG	CCCCGTGTTG	120
	CGGTCCACCA	GCGCGCCGAC	CGCGCGCCCG	GGCCCCGACG	GCAGCGCGGC	CGTCGCGCCC	180
	GCCTGCACCG	CCGTGCGGCA	GGCTGCGACG	AACTCGACCA	CGTTCTGTCT	CGAGCGCACG	240
20	AACTTCTCCA	CGGCCACGTC					

1438RP

25	GATCTCTTTT	TAACGGCTGT	TACCAATAAC	GATACCGCAG	CTACATCTGG	AGAAATAGTCT	60
	GCATCCCATG	CCTCCAAGTT	CCTGTGAACA	TACTCCTGGG	GATCGACCTC	GAAGCTCTCC	120
	AAGGTCTCTT	CGCTAGGACA	AAGAAGCGGG	AAGATAACAT	GTTCCAAAAT	GGTTGCATAA	180
	TGTGGGTCAA	CTATCGGCCA	AGTAGACTTT	TGGACCACTG	TTTGTTCAT	GAAGTCCAAT	240
	ATGTAATATA	GCGACTCCTT	GCTTAACCAC	AATTGCGCTG	CACCCACCT	TTCAATCTGC	300
	TGGAAATGCA	ACTGCAATAG	TTGCGGCAGA	AACTGCTCCA	CATACAGCAT	TTTAAATTCA	360
	GTGTACTCAA	ACTTTTGTCT	GAGAGATTCT	GAGGCATAAC	GTTGGAATAA	TCGATACATG	420
30	TTAGCATATG	CCCCTTTTTT	GGCTCTGACC	CATGGATGCG	CCCGCCTATC	ATCGACCGCC	480
	AGCGCCATCA	CATGCTCCGG	CAGCTGGCTT	TGTATCACAG	AAACATGGAA	GTGGGCCAC	540
	GGAATGAAGT	TTTCCGACCG	TTGGAGAGTG	AACGGCAGGT	CATTATATGT	CACAAACTTG	600
	TAGATCTTCA	GCACAAGCTT	CAACATATTC	CCCACGATCT	CGTTGTGCTT	TCCTCGCTGT	660
	ACAAAAGCGC	GTTTGCGTAG	TGCAGCAAGT	CTGGGAAATA	TCTCATGATC	AGCATCTCCA	720
	GCTCCTGA						

1438UP

40	GATCGGCAAA	CCTAATGCGT	CTGGACGTAA	TGTAATCCAA	CAGCGACTGT	AGAGCTGCCT	60
	GCGGTTCTCC	GACAGAAATC	AGCTCATCTG	CCCGCTTCAA	GGCGTTTTC	GGGCGCAAAA	120
	CAGGTGGAGC	CATGCTGAAT	TAGAGCTATT	TGGTGACCTG	TTTGAGTAGT	GTGGACTTCC	180
	TTTGAATGTG	GTGAACTTTG	AAGTAGGTTA	TTCAACTAGA	AAATTTTTC	CCCAGAAGGA	240
	TGCCCTCTAT	CAGCGGCCGT	GTCTGACGAT	GATCTCAACC	GCGTAAAGGA	CGAGAAGTCG	300
	TAGGTGAGT	CTAATCTACT	ATTGGTACTG	ATGAACGGGA	CTGGCCAGCT	AACGTGAAGG	360
	CACTGTCTGC	GGGATGAGGC	CCCAGCGCCA	GCGCACGGGC	CCTGCGATGA	GCACAGGTTG	420
	CCTCGAGACG	ATTGCGATCG	GCTGACGGGA	AGCCAGGTTT	CCACAGCGTT	GGCGGACTCG	480
45	CGTCGTGAGG	CTGGAACGTG	AGAAGGGTTG	TCTTGAGCTC	CGCGCACGCC	GCACGCTGCC	540
	CAGGTAGCTG	GCGGGCCGTG	TTCATCGCGC	ACAGCGGTGG	GCTCGCTGTC	ACGTGGCATC	600
	GAATATGTCA	CGTGATTACA	CGCAGCAGGG	CATCGCAGAC	AATGCGCAAG	CAGCAACAGG	660
	AGGAGGGTGT	GATCGGTGGT	GTGCGTTTAA	GAGTATGTGA	GCTGTGCAGC	TGGCTCCCCA	720
	TCTCTGGGTT	TACTCGTACC	TGTGCGCTTA	TATAGGCATT	GCCAAAAGGT	TTCC	

1439RP

5	GATCCTGTTG	GACGTCTTGC	AAAGTCGTGG	TCACCCCGAC	CAACTTCTCC	TCTGTAATAC	60
	CGCTGTACTT	CGTTAAGTAG	TCCACAATGG	GCTCATCTGG	CTTGACAAAC	TTGTCATAAA	120
	CTAAGTTACA	ATCAAAATCG	ACGACGCTCA	CACGCGTCAA	CACGTATCCG	TTTTTTGAAA	180
	GGCACATCTC	ACAGTCGATG	GCAAACGTGT	GAGAACCGTC	GTGTTGGAAA	CTGACAGTGT	240
	CCACCCACCC	ACTGTACTTC	TCCTTATTCT	GATACTTTAG	CAACAAAGCC	TTTTGGTACT	300
	CCTCCGATAA	GCCAGGTGTG	TTTAGATGGA	TGGGGTACTC	ATTATGCAAT	AAGTCATCAA	360
	CGGTCATTAG	CAAAATCAAGC	AAAGTGATTT	CCTTTTGTGT	CAATGTGTTCC	ACCTTTGCGA	420
10	TCCTTCTCCTT	TTTGTGACAAG	CCTACATTGA	CAAAAGAATT	GTATGCAGAA	AATAGGGAAT	480
	TCCTTGTATCC	CGGCGCTGAT	AACGGCAAGA	TACACATTG	CTTGCACATC	TGTTCAATTTT	540
	CACTAATCGA	GTTTAGATGT	GCGTCTTGCA	ATTTCGGAAT	ATTTTATGA	AACAATGAAT	600
	CCTTCGGTAG	ACTGAAGTCC	TCGGGTAAAA	GGCCTGGAGT	GAATAAGACG	ACCACCTTCT	660
	TCAAAGAGGC	CTATTTTCTA	TCGTAATCCA	GTTGGGAGAG	TTGTTCGTAT	CGTGGAATAT	720
	GTACTGGA						

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1440RP

35	GATCTATTCT	TCATTTCAGCA	ATCAACAAGA	GCTGGTGAAA	CTTGGGCAAG	AAGCTGAGCA	60
	AAGCGGTAAA	TACAACCTGG	CATTCAATGC	ATACTGGATT	GCAGGAGATA	TCAACAAGGC	120
	CAGGGACGTG	CTTTCGAAGA	GCGGACGCCA	TCCGAGGCT	GTGCTTCTGG	CATCCACATA	180
	CACCTCAGAC	AATGACGCCA	TCAACGCTGC	TGTAGAAAAA	TGGAAGGAAC	AACTGAACTC	240
	AGCTGGAAGA	GTATCTATCG	CAGAAAGAAT	TATACTTTCC	GGAGAAGACG	ACTTCCCTGC	300
	AGCTCCCCAG	ACTTTGGTCC	AAATGGATGA	CGGATCAGAG	TCCGCGTCTA	AATAAACATAT	360
	AATTTTAAAG	ATAACAGCAG	GAATAAATTA	ATTACCACGA	AGGAAATTTG	TATGTACATT	420
	CTAACTAGAC	CCAATGGTAG	AATTTCAATTG	CGTAAACACG	GCAACCTTAT	CAATATCTTTT	480
40	CCGTTTGTC	AGTCCGACAA	AGTAAAGTTC	TTTGGATTCA	GATCGGCATG	CTTCCGGCTT	540
	AAAACGCCGC	ACTTTGGTGA	ATACCTTTCC	CAGACGCCGT	TCTAATAGCT	GGTCTTCCCTT	600
	GCCAGTGAT	AACTTGCAAA	CGAATGAGCC	ACCGGGCCTC	AACAATGCAA	TTGCACATAG	660
	CAGTGCTGCG	TTCACACAAG	TCCATCGACA	TGTA			

1440UP

45	GATCCTACAG	AAATAATCCA	GTACAAGGTA	CCTCTAATCT	ACTGTGTTAA	CATGGAAAAC	60
	ATTTCCGCTT	TAGGCTTTTT	CTTTTCACCG	AAAAGGTAAC	GTGTTTCGAAA	CATATATCAC	120
	GGGTTTCGAAA	CTGACTAAGG	TTGCTCATGC	CTAAACCAGA	TAGGCAGCAA	TGGCAAGGGG	180
	CTTGAGGTGG	TACCAGAAAA	GCTGCCACCT	CCTGCTGCGT	GCTTACTCTC	GCAAAACGGTG	240
50	TATACTATTA	GTGTTGGAGT	ATTTATTGCT	TATTAATAAA	CCGAATTGTG	GGCCTAGAAG	300
	TGGCGATTAT	CACGTAGCAG	CAGCGGCTGG	CAGCGCAGAC	TGCTCGCGAA	GCCGAGCAGC	360
	TGCGTTTGTAG	GCAGCGTTTA	GAGCTGCAGC	CGTGACCATC	AAACCTTCGC	CGCGGAGGAC	420
	GAGTATGAGG	GCTAGCTCGA	GGCGCATCAA	GAGCTTCTTC	GATATGCCGC	AGACCTTGCT	480
	GAAATACTCG	TGGGAGTGCA	CGGTGTCTTC	CACAATCTTG	GTTGAGACAC	GTATCAAGGC	540
	CACTATGAAG	CGATGCACAT	ACCTCTCGGC	GATGGGCCAG	CGGATCTGCA	CCGGACCGGT	600
55	TTCCGAAGGA	GGCCATTTTA	GCGTGAGGCG	GAGTAACAAG	CAGCCCGCGG	TCTGGTAGAC	660

TATGGGCGCA AACATGCATT TGGCGTTGAT GCCGTCTAGG TACTGCGTAT AC

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1442RP

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GATCAATTGC	GTCCTTCATCC	GATGAGACAT	TTTGAAAATT	GTTGGAATAT	TGGGCAACAT	60
CAGGGTATGG	TAACACCTCC	GGTTCTAAAC	TTCTAATCGG	TAGCCTCGTC	GCGCGTGTAA	120
CGCATGGATC	ATCAATGGAC	GGTGCTGGGG	GCGATCTAGA	CACGCCCGAA	TTGGGGCTTG	180
GTGTGAGGTT	TTCGTCCGGA	CTTCTCACTT	TATCAGGTAT	GACTATCACT	TGATGATTCA	240
TTAGATTCCG	TGTATCCACA	ACATGGACGT	GGCTTTGGTG	TTCCGAGATA	AATAGTAGGT	300
CATCAAACGA	GCGGCTAAAC	TTGCACACCC	TAAAGGACCC	GTTCTGTGCA	TGTCTTCGAG	360
TTGAAGGTAT	CTCCGCAAGA	GGCGTGTCCA	TTTTTCTCAT	ATCGTACACC	AGACAGAGGC	420
CGTTTTGGAA	TATCGTAGCC	ATGTGCACGT	CGTTTTCCGT	ATAGCTTGTG	TAAAAGCCGT	480
TATCACCAAC	AGGCGAATCG	TAAATACGAT	CTAGGACTTC	GGATCTATCG	ACCGCGGCAT	540
ACCTTGGAAC	GCACTTTGTG	CGCGACCATT	TTGAACCCCA	CTCAGGAGCG	GCGTCATATT	600
GTAATGAAAA	ACAACCGCTT	AGTTCATCTG	TCTATAGACC	GCAAACCTGC	TGGAATCTCC	660
CGAAACCACC	ATCGTCTTCC	CATCGTGTGA	TATTGCCGAG	CAGTTTAAAG	CAAATTTTAA	720
GT						

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1442UP

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GATCAAGGCT	GGGAAGTTGG	CGTTGACTGG	CTTGGCCTGC	GCAGGCTCTC	TGTTGCCGCT	60
CTTGCCGCCT	CTGTTGCCGC	CCTTGCCGCC	TCTTTTGTTG	TCTCTCTGGT	CGCGAGACTT	120
AGGAGCAAAG	GACTCGGTGC	CATCAAACCTC	TAGGAACTGC	TTGGCCTTCA	AGTGCTTCGT	180
CTTGACGTTT	TTGACCTTGG	TAGCCTCCAT	GAAGACCTCC	TGCTTCTTAA	CGAACAACCTC	240
AGCGTCGTG	AACTTCTCGA	CCTTTCTGGC	GACAGGGGCC	TTGTTTCAGGT	CGGAGTTCTG	300
CTGCTCCAAG	TACGCCTCCA	AGGTGACGGC	AGCTGCAGTG	GCCTGCTCCT	CCTCGGCAGC	360
GTCGGCGGCC	AACTCCGCCT	CGGCAACAGC	GGCACCAGCC	TCCTCATCGG	CCTGCTCCTT	420
CTCGTTGTG	CCCCACGCCT	GCTTGATCTT	CTTGGCAGAG	TCAGTCTTGC	CGGTTCTCGA	480
GTGGCGGTCA	AAGGTCTTTC	TGCTGTCTCT	GGCTGGCTTG	CCTGGCGCAA	GAGCGTCTCT	540
GGACTTGTTC	TGCGAACGGC	CGGCCTGCTT	GTCTCTGAAC	GCAGCCTCGT	TGCCGGTTGG	600
CTTTGGTCTG	TTGTTCTTGG	CACGCGATGG	GTCGGCAGAT	GGAGGAGGCA	CGTCCGCCTT	660
CTTGGAAGAG	GTGGTCTTCT	TCACAAGCTC	CTTTGGAGGA	GACACAACAA	CGGTGGCGTC	720

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1443RP

	GATCTATGCG	GTGCTGTGCG	CGTGCATCGA	CCAGCACAAG	AGCTTCGAAT	TCGATAGCGG	60
	GAGCTTCTTC	TTTCAGTACG	TCGAAGGCAT	CTACTCGTAC	AGGACTGCGA	GCCTTCTTGC	120
5	GGGCTATCTG	CGGACGCACT	CCGTGCCGAC	GGCCAGCCAG	TACGCCAAGG	TCTTCCTAGA	180
	CCGCGCGCCC	TCGCCACGTC	AGGCCGAGGT	GCTGCTGCTG	GGCATAGTTG	CGGATGCCGA	240
	CGCCATGCAG	CGGCTAGTGC	AGGAGTGCAA	AACGAGTGGA	GCCGTGACAT	CTGCGAGCTT	300
	CTCGCTTCTC	ACAGAGTGCC	TCGACATATA	CCTGTCTGTAT	GTGAACGATA	CCGTTTTGCT	360
	GGGGCCCCAAG	AGCAACTTCC	CGCTTGAAGA	TCTCGTGGTG	TTTTGCAACT	TGGTGCGTGA	420
	CGCGATATCT	CAGGCTTTGC	GTGCTGAGCA	TGATTATGAG	GTGAACAAGA	TGCGCCGCGC	480
10	GCTCTCCTTA	CTCCAAAAGC	TGTATATTAG	GGATAGAAGG	ACCAATTTCC	TCTCCGCGGC	540
	CAAGGGGGAC	GACTTCTGGG	TCATTGCGGA	TACCACGGTG	AAAAACTGCG	ACATTACATC	600
	TCTCCTTCTT	TACTTTGATG	AGTTCTACAG	AGAACAGTTG	GATTTGTTCC	TGGCGCAGGG	660
	CCGTGCTCGG	CACGAGGTCC	CAGCGCGCAT	CTCGTAGCGT	GGGAAAACGA	TATAAA	

1443UP

	GATCCGGCAT	TTACATCTGA	CATGTAACCG	GGTGGTTCTG	TAGGTAGGGT	GTTCAATGTA	60
	AAGTGGTCGC	AGTTCGAAGT	TGGGGTAGTA	CTAAATTCGA	ACCCCGGTGG	CGGTGGTAGA	120
	AGATGGCCAT	CGTGAAGGTG	TTCCACAAAA	CTATTCTGTT	CACCCCTCGA	TACTTCATCT	180
20	TCATAACTGC	TTTCTAACAA	TACATCTCGG	TCATAGTCTT	CGTAGGCTGG	TGGAGGCAGC	240
	TTTATGCCGT	TCAGCTTTGC	ATATCCCCAT	TTCTTTACGT	TTGCTTCAAT	GTAGACGAAT	300
	CCGTAGGTCC	CGAAATTAAC	GTGTATCTTG	CATGGGACAT	TGCGACCAAC	AATCGGGTAA	360
	AGATACTTAA	TTTTCCAGCC	CTTTATGTGG	CCACCAATGC	GTTTCTCATT	TAACCTCTTG	420
	CCATTGCGCG	TGAAGAAAAC	TGTGCCGCTC	CGAGTTCTGT	AGCCAATCCC	GATGACGTCG	480
	CCCTTTTTCG	AGCGGGGGAA	TAGTGAAGAG	AGTTCCTGCG	GGAGCTTAAA	CGAGTTGTTT	540
	AACCTACGTG	CTCCATTAGA	GTCAATGCA	ACTGAGTGAT	GGTGTCTGCC	GGGAAGCCTA	600
25	AAATAGGGAT	ACGGCGATGT	AGCAAGACCA	AAGGAACTA	TTTGGTTTTC	TGAGAGATGG	660
	CTGACCGGGC	GGCCAAGCCT	GTACACAGAGT	CGAAGATCTT	GCACTCGAAG	T	

1444RP

	GATCTGGTTT	TATAGGTTCA	CGAAGGGACT	CTGGACGCGG	ACCCTGCTGA	AGTGTGCCAA	60
	CATGCTGTAC	TTCGTGGCCG	TGATGCATTT	CTACGACGAC	TACGAGCACG	CGCCGGTACT	120
	GAAGAACATT	GGGTACTCGA	TCTTTATTCT	GAGCATTGGG	ATGAATCAGG	CACTGCATCA	180
	CGCGGGGCGG	CTATTACAGG	GGCGACGCGG	GCGGCGGTCC	TGGTGGTGCC	GGTCCGACAC	240
	ATTTGTGCTG	CAGCCCGCAC	TATATATCAG	CCAGTTCTAC	CTGCTGCTAC	TGAATGTACA	300
35	GAACCCGAGC	TTTCAATTCGA	CGCCGAAGCT	TGACATAATT	AATCGCACGG	TGCTGGTGGC	360
	CTACGTGCCC	CTGGCGCTTC	AGTGCTTTTCG	TCGGCAGCTG	ACGAGCTAAG	TCACTCGGGC	420
	AGGAGCTGCT	CCGTGAGCTC	GTGTGCTATG	CGTGCGGCGT	ATTGCTCAGC	GGCATGAACA	480
	TCTGTTATCT	TCTCTAGCTG	TTCTCTAGCT	TGCTTAATCC	TGGTTACCAC	ACTGTCGAGC	540
	GGTATATCTG	CCTGCAAGGG	ATCCAGCTCT	GCGAAGGCTG	CAGCGGTCGA	CGCGTGCATA	600
	CGCAGCATAC	GCTCGCTCCA	GGGGATGGAT	ATCCAGCAGC	TCGCGCACAC	TTCCCGCCCC	660
40	TGCTGTTCCC	CCAGCTCGTT	TGTGCCGCGC	TCGCGCCATC	TGAGAAGCGC	ACGTCGTGCA	720
	CTTCGAGGGC	ACGCTC					

1444UP

	GATCCAAATA	CATCCGGTAT	ATATGCTACT	TGTGCCAGAA	GACATGAAAA	GCAAGCATCA	60
	AGGGAGCTAA	TGAGCATTC	ACAGGAAAAG	GCGGAAGAA	ACTACGTTGA	TGAACTCAAA	120
	GCTATCGCAG	AGACTGAACT	CTTGAGCGAC	AAAGAAGATG	AAGAAGAACT	ATCTGTGGAA	180
	GAGCAGGTGC	AGAAAGAGCT	AGAGCAATTG	AAGAAAGGCA	GTGGTCTCTG	GGATACCAAA	240
	AAGAAACCGG	TCCTGCAAGA	GATTCAAGTT	GGATGTGAAT	GTATGGTCTT	CATCAAGACT	300
	AGAAGACCAA	TCAAGCCGGA	ATGCTTTGTC	AAACGCCTAG	TACAGGAACT	TGCATCGTCA	360
50	GAATAACTA	CCAAGGTTTC	GCGGTACGTC	CAGAGATTGA	CACCCATCAC	TGATTCTCTG	420
	AATGCTAGTC	TAACAGAATT	GGAAAACTC	TGCAGAAAGG	TGCTTGCTCC	TCATTTCAT	480
	ACTGACAAAG	AGATAAAGTA	CAAGTTTCGG	GTCGAGGTGG	TAAAACGTAA	CTTCAACACG	540
	ATAGACAAAA	TGGATATCAT	TAACTTTGTG	GCGAAGGAGG	TCGGTAAGAG	TGGGGATTGG	600
	GGGCACTCTG	TGGACCTAAA	GGACTACGAC	AAGCTGGTCA	TCGTGCAGTG	CTATAAGAAC	660
55	ATGCTGCTGCT	TGCTGCTGCT	GGACAAGGAT	TACTCTGTGG	CTCTTAAAA		

1445RP

	GATCATCTTC	CGAACATACT	CGAGGGAGTT	CGCGTTCGGG	AAGTTCCTGT	ATCGTTGCA	60
	GTAGTGGAAT	TGCTCGTAAT	CGTCTGTAAA	TAGAAAATTG	GCGTCAATCA	TGTTGTCCCC	120
5	GTTGGACGCG	CCGGAAATGA	ACATGAACGG	TGGCAGCCCG	TAGCGCACCT	TCTGGCCCCG	180
	GCACGCGCGC	AGAATCGCAT	CGTTGGTGCG	CAAAATATCG	CTGTACGCGA	CCGGCATCTT	240
	CTCTTCTTCG	ATGGGCTCCA	ACACCGCCAT	CTTCAACAAC	TGCGGCCCAT	AGCTCATCTC	300
	CATCTCCCCG	GAGAGGAGAT	TGTAGTGCGC	CTGCGGGGGC	CGACTCGTGC	CCGACTGCTC	360
	CGAACGCAGC	AACGTCGACG	TGCTATTCAA	GCTAGTGTTC	GAAAAGTGCA	CATGCTCGTC	420
	ATACGAGGAA	CAGCTGAGCG	CCATCTCGGT	CACGCTGAGA	AGGTACTGTT	CTTCCCGCGT	480
10	GTACAAAGAC	CCCGCCTTGT	ATGTCGAGCC	TCTGGTGCAT	TCCATTGGTG	TGCGCCATTG	540
	TCTGGCGCAG	CCTGATACAC	TGCGCCGTGA	AATACTACCG	CACCACCGCA	CGAACGACCT	600
	TTCCGCCATT	CTTTTGGTTT	ATAAAACCCG	ACTACGCATA	TATTTTCATCC	TGCTCTGGCA	660
	TGTCCCGATG	CCGTCTCCG	TGTGACATAG	CTGCTTATTC	ATCCTGGGCG	TTTATT	

1445UP

	GATCCTTACT	GACGAGGAAG	AATCGAGCAA	TAAAGTTGAC	GCCGCTTCGA	GCTCTAATAG	60
	CGGTAAGAGC	ACCGCTAGTA	AACGTCCAGC	CAAACTAGG	AAGCCTAAGG	CTGACACTGC	120
	GGCTACGAAA	AKCGGAACCA	CCTCCCGGAT	GCCCAAGACT	GCTGCTTTGC	AGGCGCTGCT	180
20	GAACAAGAAA	AGGGGGGCTT	CGGCAGAATA	GACTACTGGT	AAACGTAAGT	AATAGTATAA	240
	ACTTGGTTTT	TTAATCCCTG	GCTATCTCAG	ACTGCTAAAG	CATGGCCGTT	TAGGTGTGGC	300
	CTCCTCGGTA	GATGGTTTGC	ACCACGCAAG	GTGAAAAA	GATCACCAC	CCTGAAAAAC	360
	GTTTAACAAT	TGTGATCTC	TAAAGGCGCT	GCAATCAAGG	CATATTACCA	TTGTGGAGCC	420
	ATGAATCTTG	CCAATGAACC	GAAGTTCCAA	ATACAAGTTG	ATGAAACAGA	GGATACAGAG	480
	TGGAACGATA	TTTTGAGGCA	GCAATGGTGC	ATCCAGAAC	GGCCACCTTC	ACCGACCGCA	540
25	CAGCTCGAGG	AAGCGCTCGA	GGAAGTGCTA	CNGAGACCAC	ACGAGAATAG	ATTAGAGAAC	600
	AAAGACTCTC	TGAAGTGGAG	GACTGGAAGA	TGAAGAAGAT	GATGAATTTT	TGGAGTTTAA	660
	CCAACGTAAG	AGAATGGCAG	AAATGCAGAA	GCAACAAAGA	AGCGCAAGTA	TGGGGAC	

1446RP

	GATCTGCAGG	CTGCTACGGA	GGAATCGTTC	TCCGAGGTTG	CTCGCCTGAG	TAAAGACCCA	60
	AACTTTCTTA	GCATTTTCGC	GCAGGAGCTA	CAGAAGCTTA	CTGGTGAGCC	CCATATAGGC	120
	GGCAAGGTGG	ATGATATAAC	GGTAGTGATG	GTGAAGGTAG	ACTAGTAGAT	TGCACATATG	180
	TAGAATTACT	AATATCATTC	GAATTTCTGG	CTTAAGACAA	TGTTCTTAAT	CCGCTCTCTC	240
	TGCTCTTCA	ATCTCTGCTC	GCCTTCTAGT	ACGTCATGAA	CAAACTTGAC	GTCGGTCCGC	300
35	AGGCATATCG	GGCGGAGTTG	AGTCCGCTTT	CCTGATTTGC	TGAGAAACGT	AAAGGGCACC	360
	TTACCCGCTT	CGACTTTTGA	TGACAGATTG	CTGTTGACCT	GTGTGCTGGT	CCCAGATCCA	420
	ACGATAGGAA	TGTTGTTCAT	GCGGATTTTC	TCATTCTTGC	GGGATTCTAA	AGATTGTTGC	480
	ATCACAGCTT	GGTACATCTT	TTCCATTTC	TCTTCTGCTC	TCCGCTCCTC	CTCCGACTTT	540
	AGCTTTCTTT	CGTATTCTTC	GTTTATCTTT	TTGCGCTCTA	GATCTCTGTC	AATAGTAAAC	600
	ACGCTCTGTG	CGTCGTCAGT	ATCTTCTTCA	CTTTCACTGC	TTGACGGGGA	ATCACTATCG	660
40	TCGTATCCT	CATCGTTATC	TTCTCTGAT	AAGTGCTATT	AACGTCTTCT	TCTTCTACCT	720
	CGCTGGAGTC	GGCACTGTCT	CCACTACTAG	ACTCGTAGCC	ACTATCTTCG	TCCTC	

1446UP

	GATCAATTAC	ACTACTAGCA	ATCTACTTTT	CAACAATCTG	ACTGTCCGCG	AGGTTAAACT	60
	CTACCGTGAA	CAGCTGATGG	TACTCAAAGA	GCAGAGGTTT	ATAGTGAGAG	GCATGCTCGA	120
	GAACGCCAAG	AAACAGCGGC	GTTTTGAAGA	GGTAAATACG	TTAAAGGAAA	ATACCAAAGA	180
	GCTAGACAA	CAGATAGCCC	AGCTCGAAGA	AACCCTAGGC	GACCAGGGTT	TTGTTTAGTA	240
	TCTAGCATGG	AGTTTTTTGC	TTAACTATAA	TTACTGTGTA	GATGCCGCG	ATAGCATGTC	300
	GTAGCATAAT	TGCGAATTTT	CACCAACATG	AAAAAGTGTA	TGTGTATAAG	GCATCCAGTG	360
50	AACTCCTAAC	ATGCTGATGA	GGTTTTAAGT	AAAGATATCA	CTAGCAATGA	ACGTAAGTGC	420
	AGTTTTTGAG	CTTTATGTCC	TCTGTAGAAC	ATAATATTAA	CGACAGGGGG	ATAGGATGAA	480
	AGAAGACAGC	AGTTATTTGA	GCTGAACAGT	GAAGCCTGGT	CTGGAATTGA	TGCGTTCCCG	540
	AATAAAACCA	GCAAGCTTGA	CTCAAGCATC	AAGAGAAACA	CAGGGTTTAT	CAAAAAGCTG	600
	AAACAGGGTA	TCACGAAAGA	CTCGAAAGAT	C			

1447RP

	GATCCAGGAT	GATGAATTTG	ACGAGGAGGG	GGGTGCAGAA	GAGAATGACG	ACTACTCACG	60
5	GTTTAAAAGA	TCCTGCAATG	CCTCCACAGT	CCCCGCGTTG	TAGTAGGCAT	AGCGCTCGTG	120
	GTACGCGCCG	TGCGCCATGG	CCGGCGCCAT	GGGCGCGGGC	CCATGCGCCC	ACCCCGTGGC	180
	GTACATGTTC	TACATCCGGC	GCCGCGACGC	GTCCGAAAGC	AGCGCGTAGG	CCTCGTTAAC	240
	CAGCTTGAAG	CGCCGCAGGC	GTTCGTGCTC	ACCCAGCCCC	TGTTGGGCAG	CCCCCGCCGT	300
	GTCCGGGTGG	TACAGCTTCG	CGAGCTCGTG	GTACCGCTTC	TTTAGCTGCC	GTGCATCGAC	360
	GCCGGTCTTC	ACCAGTCCCA	GTACCTCGTA	GGGCGTCGGC	TGCTTGCCCT	GGGGCCACGA	420
	TAGCCCCCCC	TGCCACCCGG	CGACGGTGCT	AGCGCACCGC	ACCGTACTCC	GACCTGACGC	480
10	TGTAAGCGAG	ACCGCCAACG	TGCGCCAGTC	CTGAGCAGTG	CAGTCGGACG	CGACAACATA	540
	ACACTTAAGC	TCCTAGTTAA	CGCTTTGGCG	ATGGAGATCT	TGTCGGTGCA	TGCACATATC	600
	CAGGACGCCG	CTCCGCCCTC	GCTCGACTGC	TGGCCGTCCA	GGCTCCAGTT	GGCGCGCTTA	660
	GCCATATCGG	CGAAAAATA	AAGTCCTGCT	CGAGGCGCGA	TGA		

1447UP

	GATCCAGCAG	ACGCTCCGGC	TGGCTGTTGG	AGATGCACTG	GCTCTTCGCG	GCCGAGTGCC	60
	GGCAACGCGC	CCGCGCGGCG	AGACGCGCCC	GCCGCGCGCG	CGTGCGGGTA	CATCCGCACC	120
	AGGTTCTGCA	GCTCAAATCT	CAAGGCCAGC	TTGTTTCTGT	TCTCTTGCG	CTTCGGCTTG	180
20	TACTTGTAGC	CCGGGTACTT	CTTCGCGTGC	TCCTGCTKCT	CCAGTTCCGC	CTTGTCGTGC	240
	CACCTCTTCT	TCTCCTCCGC	CGTCAGTTTT	TTCCACTGGT	AGCTGATGAT	CTTGCTCACC	300
	TCGCAAGTTG	GCGGGATGTC	CTGGCCGGAC	TGCTTCCAGT	AGTCTGTGAG	CAGCTTCTGC	360
	TGGTGCGACC	GGAACAGGAT	GAACGCGTTG	CGCGGCCGCG	GGATGTGCTG	CTTCTGCTTG	420
	TAACCAGCGC	GCCCCGCGCG	GCTTCGCGCG	CCTCGCCGTC	CTCGTCCGCC	ATCCTGGTGC	480
	GCTGCCACTC	CTCGCCGCGG	GGGGGCTGGT	GCGAGAAAAA	CTTCTGTGCC	AGAGGCGCTG	540
25	CCGCGCTGCC	GCTGGCTCGC	CGGCTCGTCC	GCCGCGGCTG	CGCGTTGCCT	GCGTTGGTCA	600
	AAGGCAACAA	TTGCCCGGAT	CTCCCGCCGC	TGCTGGCGCT	GGTGTAACGAT	CCGTGTGATG	660
	GTCAGCTTCT	GCTCCAATCA	CAGA				

1448RP

	GATCCGCTAC	GTATACAACG	ACATATTGCT	ACGTATCGAA	TGTGATGTGA	CAACATGCAA	60
30	GATTCTCAAC	AACAAGCGCA	AGTGGTTTAG	TGGTAAAAATC	CATCGTTGCC	ATCGATGGGC	120
	CCCCGGTTTC	ATTCCGGGCT	TGCGCATATT	TTTCACAACA	TGCACACACT	GTGTGGCTAT	180
	CGAGACGGAG	TCCACTACGA	GCATCGTCAT	TTTTGTCTAT	AATTTACAAG	CATATTGTAA	240
	CTATTGTGTC	ATTGATCTAA	ATGTCGAGTC	GATAGAATCC	TTCAGCTCCT	TGTAGCTAAT	300
35	GATAATGCGA	TTCACTCTCGT	CCGGTGTACAC	CAAGATTATC	TTTTTCAGATA	CGCCGGGTGTC	360
	GAGTTTGTTC	AGGCACCGGA	GTACGTGGGT	GAGGTCCATC	ACGGATTTGC	CGTTCTCGTC	420
	CACCTGGTGG	AACACGTAAT	CGTAGAACAG	AATGATGGGG	AACTTGTCCT	CCGCCTCAGA	480
	CCAGTGGATG	TCCATGCTGG	ATTCCATCCT	ACCAAAGATG	AAATTTAGCT	TGCACATGAG	540
	CCTGAAGAGC	CTGCCATTCT	CTAACTCCCG	CGACAAGTGC	TGCTCGATGT	TCTCCGAGTA	600
	GGTCTGCGAC	GAACGTGATTA	TGTCTAACAT	CTTGTGGCTG	AACAGGGCGG	TGAACTCCGC	660
40	AATCGTCTTC	TTCTCGTCCG	ACAAAAGGTA	CGCCAGCACCC	CGCTTGAACA	GCGGGTCCG	

1448UP

	GATCTCGCCA	GCGCTGGCAT	CCGCGCGCCG	GCAGGCGCCG	CGCGCGCGCG	CGCGGCCGCG	60
45	GCCACTGCGC	CACAATGCTG	TCCCATAGCC	CTCAACATCC	CAACTAGCTA	GTCACCTTGT	120
	GCAATCGGTC	TACCGATGGT	GTGTGCGGCG	GGGACAAAGC	CGTGGTGAAA	CGGACACTTT	180
	TCAAAATGGG	CTGATCTGCA	GCAGTACACG	ACCGATGAGC	TGCGCGCACG	GCGACAGCAG	240
	TCGCGGTTTC	GCGCCTGGCT	GCGCATAGGG	AACTTACGTA	TAGTATAGAA	GGGCCGTCTA	300
	CTTGGCGTAG	GCAGCGAGGA	TGTCGTCTGT	GTAGCGGAGG	TATTTGCCGT	TCGCGCAGTC	360
	CGGGATGCCT	CTCAGCGCCA	GGTTGGCGAA	GATGGTGGCC	GGGATCTGCG	GGTCCAGCAG	420
50	CTCGCTGTTC	TTCTTGAGCT	CCGTGAAGCG	GCGCAGTGCC	TCCGGCGCCA	TGCGATGGCC	480
	GAACTTGTTC	TCTGCATCTG	TCTGCATCTG	CGTGTGACCC	ACGCCCCGGC	CCACGGCGAC	540
	CGCGCGCAC	GCAGGCTCTT	CCGCGGCCAG	CGTCATCGCA	AAGTGGTTCA	GCGCGGGCTT	600
	CGACGAGCCG	TACGCGCCCC	ACGCGGACTG	TCGCCGAGTT	AGTAGCTGCC	CCTGCCCTGC	660
	TCTGCGTCGT	ACATACATAT	GCCTTCGTGC	TCCGCCCCGA	GCTCACGAAC	ACCACACTGC	720

1449RP

	GATCCAAAGA	CCGCGTGCTC	GCACTTCCAC	ATGTCTCCAA	GCTGGACGCG	AACAACGATA	60
	TCTTACTGGC	GGTGAAAGAA	AGCCCGAATC	ACAAATGCCC	ACGATGCTGG	AAGCACGCAT	120
5	CTCCCGAGGC	CGACGCTCTA	TGTAATCGCT	GCGCCAGAGT	CCTCCAGTAA	GCCAAACCTG	180
	AATTTTTCAA	AAATTGAAAA	CTTCACCATG	GCTCACATGC	TGACTGCTTT	AATATCCTGT	240
	AAATACAACC	GGACTCTGCA	GGTCGATGCT	CCCTCACCTG	GGCCCCCAAC	TCTCCCTTGT	300
	ACCGGGTCCG	GGCGTCGCTG	CCTCATTCGG	CCTGCATCTC	GCTTCCAGAG	GCGGCGCTTC	360
	TGGGGTGGCG	GCGCGCCTGC	CGGCATTCAAT	CGCGCGCGCC	TACGGCAGCC	CACCGGGCGA	420
	CGCGAGGCAG	ACCCGCGCGT	GGACGTACCT	CGCGCGCTCG	CGGCTCTTCC	AGCGCCTTTA	480
10	CGCGCGCCCT	TCGTTCCGCC	CGTACATCGA	CCGTCTGCTG	GCCAAACGGGC	CGGTGCCAAC	540
	ACTCGCCGCC	TTCTTGCTGC	TCCATGAGGC	CACCGCCATC	GCTCCTCTGG	CGGTGCTGTG	600
	GTGGGGGGTC	TACAGCTGCG	ACGTGGTGGC	GCTGTTGCCG	CAGGGCCTGC	TTGACTACCT	660
	GGCCGAAGCA	CGCATCCTGC	CGTCRAGAGG	TTCGTGG			

1449UP

	GATCGGCTCA	ATGGGTTGCT	GAAGCCGTGT	CTTTCGTAAG	ATGACCTCAA	CTTAAAGGCA	60
	GGCTCTCGAT	ATCTCGTTTC	TTTTTTTAAAC	AGGTGAGCTT	TGGAATAATTT	TTGGTTCTCA	120
	GCTCATCTCA	TCTACAATAG	TATGTCTAGC	ACGCCAGCAA	AGCTTGCGTA	ACCGCTCTAT	180
20	TCAATATGAG	TAAGCAGGTA	AATGATACTA	GCAAGAATGG	TCTTGACCTA	AAGACGCTGT	240
	TTGTCCGGAA	TATTCGGTTT	GATGCTACGG	ATGCAGAGCT	GACAGACTTC	TTCTCGCAGT	300
	TTGCACCTAT	TAAGCATGCT	GTGATCGTAA	AAGATAATGC	GGGCTCGAGC	AGAGGGTTTG	360
	GGTTTGTGTC	GTTTGCTGTG	GAAAGTGATA	CACAGGCTGC	ATTGGACAAG	GGACGGGAAA	420
	CACAGTTCAA	GGGCCGTCTT	CTGAGGGTGG	ATGTTGCCAA	AAGAAGAGAA	CGTTCGAAAA	480
	AAGGCGATGA	GGCCGAGGCA	CAGACCTCCG	CGGAGGACGC	GGAGAAGCCG	ACTACTGCTC	540
25	CCGAGGGTGA	CGAGGCGCTC	ATGCGGGGCA	AGCCCAAGCT	GATCATTAGG	AACATGCCGT	600
	GGTCCTGCCG	CGACCCGACC	AAGCTGAAAA	AGATCTTCGG	TAAGTTCGGA	GTGGTTGCGG	660
	AGGCTCCATC	CCGCGCAAAG	CGGATGGAAA	GCTGTGTGGG	TTGCATTTGT	CACGA	

1450RP

	GATCAATTCT	GTCTTGAAGT	AGGTATTAAAT	CAATGGGTCA	GGCTGGGTGG	AATTGCTTAC	60
	AAAAATACCA	ACCCAATCAT	CTTGTAAGTT	GGTGAGCGAT	ACGTAGACAA	TTTGCCCTCAC	120
	ATCAATCTTA	TAATCGACAG	CATAGGTGAG	TTGATTATTA	ACCAGTGTCT	TTCCGATAAT	180
	GTAGAAATGG	GATGGCGTAA	GTATAAAGGT	TTTGGGTAGC	CTTTGGGCCG	ACCTACCAAA	240
	TTTTGAATGT	AGCGCTTGCC	CATTGATAGA	GAATACGACA	TGATCATTAA	TTCCAGCTTT	300
35	CCTTTTGACA	AACGCACCCT	TGCATTTTCA	CTCATTACAA	GAAAGGTAGT	CTCCAGGAA	360
	TGCCCTGTAA	CCTAACAAAG	ACATTGCACG	CCTCTCCTTT	CTGCCACCCA	ACAACCTGTT	420
	ACCGTAATCC	CGGAGTTGTT	CGAATTGGTT	CCCATGTTTC	ATCTCACGGA	TAGCACGCTG	480
	GATACGAATC	GCAGAATCGA	TACGCCGTTG	TAAAAACCGC	CGCCAGGCTC	TCTGAATGCG	540
	AGATGCCATA	TTATGCCAAT	ACTTATCCCT	CATGTTTTTC	AAAGCAAACA	AGGTCTCAGG	600
	TGTTTTAATA	AATACCTTCG	TTACACCCAA	CTGATATTCA	GTCACAGGAA	TTGAAGTATC	660
40	TCTCAAAATT	AAATTGACAG	CATCTAAGGT	ATTACCTTGC	CATGT		

1450UP

	GATCGCAAGT	TGGAAGAGCG	AGTATCCATA	TGATTACTCG	CGCGAGACGC	CCGGCTCGCG	60
45	CATCAAGCCT	CAGACAGTTA	TCACTCGGCT	CTCCGAAATC	GCAAAACGCCA	CCGGAAAGGA	120
	GGTCATCGTG	ACGACCGGTG	TAGGTCAGCA	CCAAATGTGG	GCCGCCAGC	ATTGGACGTG	180
	GAAGAAACCA	CGCACATTTA	TCACATCAGG	CGGCCTCGGT	ACCATGGGCT	TTGGTCTACC	240
	GGCGGCCATT	GGTGCCGAGG	TAGCCAAACC	CGATGCGATT	GTATCGACA	TGCATGGCGA	300
	CGCCTCGCTC	AACATGACCT	TGATGGAGAT	GTCCAGCGCG	GTGCAGGCGG	GCGCCCCAGT	360
	AAAGATATTG	TTGTTGAACA	ACGAAGAGCA	GGGAATGGTC	ACTCAATGGC	AGTCTCTATT	420
50	CTACGAGCAT	CGTTATTCTC	ACACCCATCA	GCTAAATCCG	GACTTCGTCA	AGTTGGCTGA	480
	TGCAATGGGG	TTCAAAGCAA	TGCGCCTAGA	GGCGCAGTCG	GACATGGAGC	CCATGCTGCA	540
	GGAGTTTATT	AATTGCAAGG	AGCCCGTGT	ACTCGAAGTG	GCCGTCGAGA	AGAAGGTTCC	600
	CGTCCTCCCG	ATGGTCCCTG	CCGGTAAGGC	CTGCATGAGT	TTATCTACTT	CGACCCAGAG	660
	GTCAGCGACA	GCAAGCGGAG	CTTCGCAGCA	GGCGTACGG			

1452RP

	GATCAAAATGT	GGCTCTACAA	GGGCGGAAGT	GGCAGAGAAT	ATTAATGAAT	CAGTTCCGCT	60
5	GACATATTTG	TATTGTACAG	GTATTCCACA	TTCTTTTGAG	TACGTATGTC	CGTCTAGGAA	120
	TGGCTGGCTT	AGTAAGGCTT	AATATTAACT	GAAAAGCGCA	GCAGTGTAAT	CCATCTAGTA	180
	ACTAACACAT	ATCCATTAGC	ACATGTTTCG	TTCACTACTA	CGTCATTCTT	ACGCCGTCCC	240
	TACTGTGAAT	TACACATGGT	CCTCGAGAAG	CCTCATAAGA	TTCTTCACTA	GCGATGAGAA	300
	GGCAGCTCCT	CCATCGCTTC	CGAGAGAAGA	GCAGAAAGAG	TTCGAACGGC	TTCAGAAGAT	360
	TGCACAGTCA	CAAGCTGCCA	TCGACGAGTA	CAACAGACAG	TTGAGAAATG	ACCATACGAA	420
10	GGAGTCAGCG	AACCTCTCCA	TCCTCAAGAC	AGAAATAGGC	TCGTTCTCAC	CGGAATTCAG	480
	CAAGACGTTG	CCAGAGTTCC	AGGGCGACAA	GAATCCCGAG	ACAGGGGAGA	TTGGCGGGCC	540
	GCGCCAAGAC	CCACTGCGGT	ACGGGGACTA	CTCATACAAC	GGCCGCGTGA	CGGACTTCTG	600
	AGGTATAACT	TGTGTTTATA	TGTTTGCAGG	TTGGTTAAAT	ACATAGCTTG	CGCTCCAAC	660
	CTCTCGCAGC	TGCAGACAGG	TTGTCGGTGC	ACTCCGTGAT	GAATTTTCGAG	TCCAGCTTT	

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1452UP

	GATCACCAAC	TCTACAGCAA	GAAATCCTAC	GCCCAGCAAA	AGCTGTCCTC	GATGTTCTTC	60
	TATTCTGTAA	ACAGTTTGTT	ACTTCTGGTC	GCTTGATATCT	GCATGCGCTA	TCATCTTTTC	120
20	ATCTGGAGCG	TTTTACAGCCC	GAAGTTGTGC	TACCTTCTGG	GCTGGAACAT	CCTCATCCAC	180
	TTTCTCACTG	AGACGGTGCT	TGAACCTTTC	TTGCTCATGG	TGGCGGGCTG	ACTGTCTCTA	240
	GTTCCACTTG	TATAATATTC	CTTCATCAGT	GAGAACTCTCA	TAGTATTGTC	ATATATTAGA	300
	TATTATCTAG	GTCAATGTTTT	AGAGAATAGG	TCTCTTCCGA	AAAAATTGGC	TACCACTGCC	360
	AATCATTACA	TGTCAGAACC	GACCATCTCC	AAGTGTCGAA	CCGTCCCCAC	TGCAAAATGCT	420
	CTCACTTAGA	TCCAGCTTCA	GACGCTTATT	TTCTGTTTCC	TGCAGGGTTT	ATGACCAGCA	480
	GGCGCAGAAG	GCCGTGTCTT	CCTGCCCGGC	TGGCACACCG	CTGAATCTGC	TTATAAAGAA	540
25	GGGCGGGAAG	GAGCCGTTGG	CTCTCGAAGA	TCCGACTACC	CGAGTGOTTA	TGGAAGGTGC	600
	TTGACCTGAG	GCGCAAGCCG	CAAAGCTGGC	AGAGGACCCA	TTAAAGCGCG	GAAGAAGGCT	660
	CTGCGGCGGA	TGAACAGAGA	ACACATCCAG	CAGCAGAACT	TCCTGGCGAA	GATGTGAA	

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1453RP

	GATCTTAATT	TAAAAATTTA	ATTAACATTT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAAATAAAAT	TAGTAAAAATA	120
5	AATAGAAAAC	CATAAGTTAA	TGATTTCATA	AAGAAAAATG	GAATTATTTG	TGGCATCTTA	180
	ATTTTTATTA	TTTAAATGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAAATTTAA	TTTTAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420
	TTTCATAATA	TTTTATTTTA	TTAGTCTAGT	AATATTTCTA	TTTAAATAGT	TACCCCTTTAA	480
10	TTGGATATTA	CTACCTACTA	AATATTTACC	TAATAATATA	TTATTAAGAA	TACTTAAATC	540
	TAATAATTTA	TTATCTAAAG	TATATAAATT	AATTAATCT	TTTTTATTAT	TATTTAAATT	600
	ATTATTAATT	AGTAAATTAT	ATTTATTTAT	TTTATTAACA	TAATTTTTTG	ATAATAATAT	660
	ATCATAATTA	AATGGTAATT	TATTAATAAT	TATCTTTAAT	GAATTTAATG	ATAAACCAT	720
	ATTA						

1453UP

	GATCAAAATT	TCAACAATTT	CCATTTTCATT	TAGTACTACC	ATCACCATGG	ACCAATTGTT	60
	ACATCATTTA	GTTTATPAGG	TTTACTATTA	ACTTTAGCTT	TTACTATACA	TGGTATTATT	120
	GGTAATATTT	ATCCTTTTAT	ATTATCTTTA	TTAGTAGTTT	TATTACTAAT	AACTTTATGA	180
20	TTTAGAGATA	TTGTAGCTGA	ACTTACTTAT	TTAGGTGATC	ATACTTTAGC	TGTAAGAAAA	240
	GGTATTAAC	TAGGTTTCCT	ATTATTTGTT	GTATCTGAAG	TATTAATTTT	TGCTTCTTTA	300
	TTTTGAGCTT	ACTTCCATTC	AGCTATAAGT	CCTGATATTC	TATTAGGTAA	TGTTTGACCA	360
	CCAGTAGGTA	TTGAAGCAGT	TCAACCAACA	GAATTACCAT	TATTAATATC	TATTATTTTA	420
	TTAGCATCAG	GTCTAACTAT	TACATATAGT	CATCATGGTT	TAATTGAAGG	TAATAGAAAA	480
	CATGCTTTAT	CAGGTTTACT	TATTACTTTC	TGATTAATTG	TTACATTTGT	ATTATGTCAA	540
25	TATATTGAAT	ATAGTAATAC	ATCATTTACA	ATTACAGATG	GTATTTATGG	TTCAGTATTT	600
	TTTGCTGGTA	CTGGTTTACA	TTTCTTACAT	ATGGTTATGT	TACTAATTAT	GTTAGGTATT	660
	AATTATTGAA	GAATAAGAAA	TTATCATTTA	ACATCAACAC	TCATGTAGGA	TATGAGACTA	720
	CTACTATTTA	TT					

1454RP

	GATCATGCCT	CACCGGCGTG	GAACATGCAG	GTGAGGCGTA	TGTACCCCAT	GTTGCCTTAT	60
	TTTTTTCACCT	GAAGCGGATT	GGCTCTTGTT	TATACAGACT	TTTCTGCATC	CCTTGGGGCC	120
	CAGAGCTAGG	GCCTAGAATC	CGTGTCGTAA	GCGTTGGGCA	CTGATTCAAC	ACGAGCACAA	180
	TTCCAGTGCT	GCTCGTAGAA	ACGAGGCCCC	TGAAGTATAT	GGTGATATCC	ACATTGCCGG	240
35	AGTATAGTTC	TCTGTGGGGG	CGACTTTCATG	CCATGTGCAT	CTCCGGCTTA	CTCCACAGCC	300
	GCACACGCTG	CATTGTTTTG	GGAACATCAT	GTGAAATACT	GGTATAGAGC	GCATTTTATA	360
	GGGGTGCCAG	CAGCTGTAAT	AGGGCGGCAT	ACCCCGCTCT	ATTTTCATGTG	TTTATGTGCT	420
	AGTTTAGAGG	TATTTTGTAG	GTGCATGGGT	TATGGCTTAC	TTTGCATATG	GAGATCTCAT	480
	TCGCTCGTAA	CGTATATAAC	TGAGGTAGCC	GTAACCTTGC	ACTGGTTCCC	ATTGCCAGAG	540
	CGAAGCTACA	ATAGCACCAT	CTGGCTGCAA	GTTGTGAACA	ATGCATTGGA	ATCGCATACT	600
40	CTTTTGGGGC	TGTGCGCTTT	TGCTGCAACA	ATTAACAAAT	GCCTTTGATG	AAGGAGTGCT	660
	AAGGAAATGT	TATGAATCTG	GTGTATGCCA	CCGGAACAGG	CATTACGGAG	AGAA	

1454UP

	GATCAAGCGC	TGTATGGTTC	CCGGAGCGCC	AGTAACAGCG	GTCTGTACG	ATTTCAACGA	60
	TTCCAACATG	GACGATGATG	GCTCCAAAGT	TATGTTCCCG	ACCACGCTTG	AACTCAAAAA	120
	GGTTTTTTCAG	GCTATTCGTT	TTGAGGCCAT	CAAACGGGGG	CTGCAAGTGT	TTCCCATTAG	180
	GAATATTGCT	CCTATCTTCC	GACAGGTCGG	ATTCAAGAAC	GTAAAAATATA	CCGTTCTGAC	240
	ATTCAAGCGC	GGCGATTTCC	TGAATGAAAT	GGGGTTCGTG	AACGAGCTAC	TTGCAACGTT	300
	TCACTACGAT	TTTCTAGTGC	GAACCTTTTT	AACTGATCGT	AGTAAGTATC	CAGTTGGAAC	360
50	TGACCCACAG	ACACTGCCGA	GGAGGTACAT	TGATGAGCAC	ATGGGCCAAA	TAGATGACAA	420
	TGCAGGATGC	TTGCGTCTTA	TTGCAATCAC	GGCGGAAAAA	CCAGAGTAGG	TTTCCACCGT	480
	TGCTATTGCT	ACCCGGGGCA	ATTCTCCCGG	TCATTATATA	TGTTAGCAGG	TGTCAATACC	540
	TCCTTACAAAC	CTAATATTTT	AAAACCTAAT	ATCTTCTGCT	CCTTAGAAAG	AGCCACTTCC	600
	TTTATATCTTA	ATAATCTACCC	CTAGTTCTAT	CTAATAATTT	TATAATTTTG	ATAAATCTTG	660

55	ACGTACATCT	TATCACTAAG	GAAGATCTCA	TCACAACTC	CGCAAAGTGT	TTCATATATA	720
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1455RP

5	GATCTCTTCG	ACATAGTGTC	TTAATAGGCC	TGCTGAGGAC	TTCACTGAGA	AAGCTTCAAT	60
	AGCGGGCAAT	GGCCCATCTC	ATCAACACTT	AAAATTTTTT	GTGGCAAAAG	AAACAACACT	120
	GGAAATCACGT	GACCACACAA	AATCTACGAT	TTACTGTTGA	AGGGGAGCAG	GCTACGACGA	180
	CTCTTCTTCG	CATGGTAACT	CGCTGCTGTC	CACCTGCGCG	TTGCGAGCCT	TCTTTGCTGA	240
	CGCTCGCTCT	TTCTCCTCTT	CTAACAGCCT	CTCCCGGTTA	GCTGTGATGT	AGTGGATGAA	300
	GAAGTCGCCA	TCCTTGCTGC	GTTTCGCATC	ACGCAGGAGC	GTCTCGACAT	CGTCGTATAT	360
	ATCAATGCGT	CGCTTTCGCA	GTGGGTTTAG	CAGCTTGTTA	TCACGCCCTG	CACATTGCAA	420
10	CTTCGCGATG	GCCTTGGTCG	ACTTGAACGA	CACCTCGCCC	GGTTTCATAT	ATCCAGATTT	480
	GCGCAGGTTG	TGCCAGGGCG	TGCTCACAAAT	GCTACATTGT	GCCTGCTTGT	TCCCTGTGAC	540
	AGACTCTGAC	TTGCACAACT	GCAGGCAGGC	ATGCAGCACA	TCCCGCGGCA	CGTCGCTGGA	600
	GCTCTGCTGC	TTTGCAATGTA	ACTTGAGATA	GACATGTGCG	CTGGCATACT	TGTCTACGTT	660
	GGAACCAGAA	GTAGTTTAAT	CCCGGTACCC	GTGCTTGAAC	AAAAGGTCGT	TC	

1455UP

20	GATCCCATCA	CATGAAATGT	CTAGAACTCC	CTGCATGACG	CGAATGAGGC	CAAGAAATGTC	60
	TGGTGGGCTT	GGCTAACCGA	TGTTTCGCAAC	TGCAACAAGG	GGTACCTGGT	GTTTATAGCC	120
	GTATGTCTGT	ATCCCGGATT	CGTGCAACAG	GAGAGAAGAA	CGGGACCACA	AGGAAACGCG	180
	GTAAAGCATC	TAGAATCAGC	AACCCTAGAG	AACGTTTGTT	CGTCGTTGGC	GCAAGAGCAC	240
	GGAGCGTAGG	GGCTGGGAGT	TGCGTGGGCT	ATTCAATGCT	GGGCACGCCG	GGTATATAAG	300
	TAGGGTATGC	GTCCGTTGAA	CAGAATGGAT	CCGTCTCAGA	ACAATAACCA	AATCGCATTT	360
	GGAAAAACAA	CCACTAATAT	GAAGTACACC	TCCGCTATT	TACTCGCTCA	AGTCGCTTTT	420
	GTTCGAGCAC	AGTCATCCTC	GGGGTCTGTT	ACCGGCAGCG	CTGCCCCCGC	TCCGGGTGCG	480
	GGGTCGGGCG	CAAGCATTTT	TAGCAACCAG	ACAGTCACCG	CCTCAGGTTT	TGGACCAGGC	540
25	GCGACGTCCG	GTGCTAGCTC	CGGTGCAGCA	GGCGGGGCGG	CTGGCGGGGC	CGCAGGTGGC	600
	GCCGCATGTG	GCGCCGCGAG	TGGCGCCGCC	GGTCTTAAT	CCGGCAACTC	TGGCTCCAAT	660
	GGATCTGGCT	CCCGGCCAGA	ACACTCTGGA	ACAGAACACT	CCGGCCCAAG	ACACTCTGGA	720

1456RP

35	GATCCACGCC	GCGCTGCTGA	CCAACGTCGT	CATCATCGGC	GGGACCTCCC	TGCTCCAGGG	60
	CCTGGAGCAG	CGCCTCGTCA	ACGACCTCAG	CCTGCAGTTC	CCGCAGTACA	AGCTCTCTAC	120
	CTACGCCACG	CCCGCCACG	TCGACCGCCA	GCTGCAGAGC	TGGCAGGGCG	GCGTCAACAT	180
	GTGCCACCTC	CCGGACTGGA	AGCTCGGCTC	CTGGGTCAAC	AAGCAGGAGT	ACCTGGAGTC	240
	CCTCGACAAG	TAGCTGTGTA	GTATGTAACC	GTATGCCGCG	ACCCTGCGGT	TTCTTTCCCG	300
	CTCCCCCACC	CCCATGAGC	CCCCCGCCCG	CTTCGCGGCC	TCCCACGCGC	TGGCGCCCGC	360
	CGCGCCCGCC	CGCGACACCG	TCGAGCTCTA	CCTGGACTAC	TGCTGCCCTT	TCTCGCGCCG	420
	CCTCTTCCTC	GCCTGGCAGC	ACGCCCTTTT	CCCCCGCGCG	CGCGCCGACT	CGCGCTTCCA	480
	GATCGTCTTC	AACCACTGTA	TCCAGCCCTG	GCACCCCGCC	TCCCAGTACA	TGCACGAGGC	540
40	CGCCCTCGCC	GTCGCCCGCC	TCGACCCCGC	CGCCTTCCTG	CCCTTCTCGC	GCGAGCTCTT	600
	CCTCCACCAG	GACCGCTGGT	TCGACACGCG	CACCGCCGAC	AAGTCGCGCC	ACGCCGTGTA	660
	CCGCAAGCTC	CGGACTTCGC	GCGCGACGCC	GCCGCG			

1456UP

45	GATCTGGAAT	ATTACCGGCA	CAAACCTGGC	GCTGTGCTTC	CACACCAGCC	TCCGGTACCG	60
	CTTCACGGCC	ACCAGCTCCT	GCAGCAAGCG	AATGCACACG	TATGCCAGCT	CCATGCGCTC	120
	CAGATTAGTC	AGAACCCTGA	GGTAGTTGGG	GTTTCGACAC	AGCGCCTCCA	CCAGCTCCTC	180
	GCTCTGCAGC	CCCTCCTGGA	TCAGCAGCGA	GACAACGTTG	AAGCACGACA	GCAGCACGAA	240
	CTGGTCGTCC	GCCGCGCTGT	CCGTCACTGT	CGACTCGTAC	AGCTTGCGCA	CAAGCTCCGG	300
50	GCCCTTCTTG	AAGTACCGCA	GCACCTCGTG	CACGTACTTG	TCGCTCGTGA	ACAGCTCCGA	360
	CAGCAGGTTT	AGCACCGCCC	GCTTCGCATC	CAGGTTGTTT	GACGTGCGCA	GCAGGTGCAC	420
	CAGCGCCTGC	ACGCCCTGTT	CCAGCGGCAG	ATCCAGCGCG	CCGCCGCGCG	CGTGTTCCTA	480
	CAACGTCGAC	TCGAGCTTCT	TGGCAATCCC	CGCGTCAAA	TCGCTCAGCT	CGGGCGAACC	540
	CACCAAGCGG	TCCCACGCCA	CATGCCTCGA	GCTGATCGTA	TTGCGGATAT	CGTTGAAGTG	600
	CGTGCTATCA	AGCAGAATCT	TTTGAACCCC	CTGAGCCACG	GGCATCOTCA	CAGCTAAGAT	660
55	CTACGCTTCC	ACGCCACCGT	ACTGCCCACT	TTGAAACCCG	TGGGACTAGT	CAATATCTGG	720

CGTGGTCTGG CGGACTCCC

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1457RP

	GATCAATATC	GGGACGAAAT	CTGTTGTATC	TACTACCGGC	ACGGCGACTG	CGCCCAGCGC	60
	ACCAGGATCT	CAGGCTTCGT	CAGCGAGTCC	GGATTTCGTCA	GCTAAACAAA	AGAAAGATTTC	120
5	ATCTCCACTA	CCTCTTGACT	TACCTCCACC	GAAGGATTTT	AGCAAAGAAA	TCGAGGAGAT	180
	TATAGAACAC	GATTTGACTA	AATTGGCCTT	TCAGAATCCT	CTTTTTAAAG	ATGAACCTCC	240
	ATATTGGTTA	CAGGCCAAGA	GGCCATTGAT	CCAACCGTAC	AGCACTATGT	CTGAAAGAAT	300
	GTTGAAACAG	CTGGAATCCT	CATTACTTAA	CTGCCCAGAT	TCGCTTGACG	CTGACACACC	360
	ACATCTCTAT	CAACACCCGC	TCTCTTTACC	GCATCCCAAC	TCCATTTTCT	TCCCTAGTGA	420
	ACCGATCAGG	TTCGTGGCTG	CTGGCTGGAA	TAACGATAAT	ACGTCCACTA	AAGATATCTA	480
10	TGGAAAAACT	TCTATGGTTC	AGATAATGAC	CAAGTTCGAT	TTGGATACCC	TGTTTTTTAT	540
	CTTTTATCAT	TATCAGGGAA	CGTACGACCA	ATTCTAGCT	GCCAGGGGAA	CTAATCATCC	600
	GTGGGTGGAT	ATTTAATAGA	GTCAATCGGT	GCTGGTTTTA	CAAAGAAGTT	GAAAAGCTGC	660
	CCCCTGGAAT	GGATCAAAAA	GAAGAGGT				

1457UP

	GATCGAGGAC	TTGAAGCAGT	TCCGGCAGGT	CGGGTCCAAG	ACCCCTGGGC	ACCCCTGAGTA	60
	CGAGCTTCCC	GGCGTGGAGG	TGACCACCGG	CCCTCTAGGC	CAGGGTATCT	CCAACGCCGT	120
	TGGCTTGGCG	ATCGCGCAGG	CGAAGCTTGG	TGCCACTTAC	AACAAGCCGG	GTTACGAGTT	180
20	GTCGGACAAC	TATACGTACG	TGTTCTTGGG	CGACGGCTGT	TTACAGGAGG	GTGTGTCCCT	240
	CGAGGCTTCC	TCGCTTGACG	GCCATCTAAA	GTTGGGCAAT	TTGATTGCGT	TCTATGACGA	300
	CAACAAGATC	ACCATCGATG	GCCACACTGA	GGTGTCTTTC	GACGAGGATG	TCTTGAAGAG	360
	ATACGAAGCA	ATCGGTGGG	AGGTGTTGAA	CGTTGCCAAC	GGTGACGAGA	ACTAGAAGAC	420
	ATTGCCAGTG	CCTTGGAGCA	GGCCAAGAAG	AACAAGGACA	AGCCAACCTT	GATCAAGTTG	480
	ACGACCACTA	TTGGGTTTGG	CTCCTTGAAT	GCGGGCTCCC	ACACTGTGCA	CGGCGCGCCA	540
25	TTGAAGCGGA	TGATGTCAAA	CAGTTGAAGA	CGAAGTTGGG	CTTTAACCCT	GATGAGTCCCT	600
	TCATTGTGCC	TCAGGAGGTT	TATGACCTCT	ACCACAACAG	CACTATCCAG	CCAGGTGCCG	660
	AGTCCGAAAA	GGAGTGGAAC	GCTCTACTCG	AGAAGTATGC	GGGTGAGTAC	C	

1458RP

	GATCCGCAGT	AGCTGATTGT	TCGGGTGGCC	AGGCGAATAT	TGCTGGAAGC	GGTTCAGGCG	60
	CGTATATTTG	CTCTGCGGAC	CGCCAAAGTA	CCCGCCGAGG	TTACTCTTGC	TGGTCGTAAT	120
	AGAGAAGTTG	CGCACTGCCC	TAGCAAGTGC	GGTGCTAGGT	ACGGGATTTA	GCTTCGCCAG	180
	TAATGGTGTG	AAGACGTTGC	GAAATGGCAC	AGACGCCTGT	ACTGGTCGCA	CTTGCAAGTG	240
35	GATAGCGTTG	CTAAGAAAGA	AACACCGCCC	ATACGAGCGC	GTGAACCTAG	ATAAGCTCAT	300
	GGTCAGCAAT	CAACAAGCCT	AATGATGATC	TTCTTTACAA	AATGAGGTTT	TAAAGCGACG	360
	TTAAAAAGGG	ATGCCCAACG	CTATGTTGGA	CACCTATGGA	ATATCCGTAT	GAATGACTGT	420
	GTATCATTA	CGACGGTACT	TCCTTACAGG	GCAATGGCAG	GATGGTAACG	CCGAGTAATG	480
	TCCAATAATC	ATCATATATA	CTCTAGTTAT	ACGCTATGAG	GGGTCAATTG	ATGTATTGTT	540
	CGTTTCGCCTA	TCGGCTATGC	TTCAAATTCC	ATGAGGTTGG	GCAGCTCGCC	ATTCTGTACCT	600
40	GCGGGTGGCA	TGTTCACTTT	CTCTAGTCTC	TTTTGTGGGC	GGTTGTCTTC	GTCTTGGTCC	660
	ATGTCAAGGT	CCAAGAGATC	ACAGAAAA				

1458UP

45	GATCTGTTGC	ACCTGCTATT	TCAGGCAGAT	TTGTGCTGTC	AGCAGCGCAT	GGCCATACTA	60
	TCTGCTTTGG	CGCTCGCTGC	GCGCGAGTTG	CGGGGGCTGG	AAGACAAATA	CGTGCTCAAA	120
	CCCGTCTTTG	ATTTCCCCAC	ACGCCGCTTG	CCCAGAAATG	ACGCACCATC	AAGAGCCCTT	180
	GAAAGCCGCG	AATCCGGTAC	AAGCTCCGAG	GGGACCATCT	CTGCACACCA	CACCGTCTGG	240
	CGGTTCGCGCA	AACCTTGACTC	AGCGCCAGCA	CCGAAACGTC	CGAACGCCTT	TCGGAAGCAT	300
	GCACCTGCGT	TTTTCTTTCCC	GCTGGCGCAC	GCGTGGCTGA	ATGGCATCGA	CCTGGGCACT	360
50	TTTGACGCCC	TGTTCAAAAA	GCACCTACCTA	AGCACCTTGC	GCCTTATTCT	TGCAGCCGCC	420
	AACCCGCATG	CAGAAATTTGA	CCGGATGTCC	GAACCTCATGA	GCTACGTTT	GCAGGACGCT	480
	GAGGCGCACG	ATATCAGCAT	TGAGTAGCCC	GTCGCGCATG	TGTCAGCGCA	TCTGTGGACA	540
	ACTCTTGCTT	GCAAACTGTA	TCCCGACCAC	TACCATGCAT	TAGTATGAGA	TCTATAGAGC	600
	GCCAATTGCA	CGCCTAGAGA	GATGTGAACC	TCGCAATGCA	TCTCTTGGGA	GTCTCTGTGG	660
55	CCGG	CTGCTAGTAC	ATACTCTTTG	TAACTCTACA	GAGATGTGAA	GTCTTGTTC	720

1459RP

	GATCATGCTG	GGGCATATCT	GAATGCTCTT	GAACAACGGA	CTAGATTAAT	GGAGCCTTGC	60
	ACTCAGAGGC	TTGGGCAGGA	TGCAGCTTAT	GCGGGAGCGG	CTGTTGGAGC	TTTACAATAC	120
5	CAAGCAATAT	GTGGTGCTGC	CCCCAGATGA	GACAGTAAAA	CTGCAGCGAG	AGGTGACGGC	180
	GAGCCTGAAC	TCAGCAGATC	CAGGACTCAA	CGACGTTGAC	CGCATGGCCC	TAATGGAGAT	240
	GAACTTCTAT	TTGTTGGTGT	ACATTGGCGA	AGAAATAGAA	GCAGACGTGC	TCTACCGCAC	300
	ACTTGTGGGA	CGTATAGGTG	AGAACTCGCC	CCGGATGCAC	CTCATGAAGG	CTACGTTACT	360
	GCAGGTTACA	GAAGGTGATC	CCGCTGCCGC	GAAGTACCTG	AAGAACCTGC	TTGAAAAGCA	420
	GCTTGAATAC	GATACAGATT	CCGTGGATTA	CCTGCAGGTG	GGCAAGAAGC	TAATTGCGCT	480
10	GGAACGGCCC	GCGTTGTCCA	CCGAGCTGTG	GATGAAAAAG	CTGCTGTCCG	CTGCTAGAGA	540
	AGTTTCCACT	GGACGCCGAA	CTATGGTGG				

1459UP

15	GATCACGTGC	CTGCGACATG	GCGACTTCAT	CCACTGGCGC	CCAGCTACGT	GGTATATGAC	60
	ATTATGGCCG	AGAGGTTAAG	GCGTGAGACT	CGAACTAAAT	TGAGGGATCT	CTTGGGCTCT	120
	GCCCGCGCAG	GTTCGAATCC	TGCTGATGTC	GTTATTTTTT	GCTTGCGCGG	CCTACGGGGG	180
	GCTGTATTTT	GCTTGTGTGT	ATTTAGATAA	ACGAGATAGC	TAAACTATGG	GTAGAACTCG	240
	CGGTACTTCC	CGTAGTAGTA	GGCTGTGCCG	AAGCCGCCGA	GGGCGGTGAG	CACCAGCGGG	300
	ACGGGTMTGG	CGAAACGCGA	TGGCACGCCCT	CTGATGAGGC	CGGTCAACAG	CATCACGGAG	360
20	CTCGCGCCAA	GGGCGAGCTC	GAGGCCGCCC	TCTGCGTTCT	TCCGGAGCAA	GTACCCCTGCT	420
	ACAGCGTAGG	TGCTACCAA	AACGAGACCT	GCAGCCAGCG	AGGGCACAGA	CCCTTTACGC	480
	CAGTAGCCCA	TCGAGCCACC	GATGACGGTG	AGCGCGCGA	GAGTGAAAGA	GGGATGTTCC	540
	CTTGCGGTGG	TGGTGGGTGG	TGCTGTGGGG	AA			

1460RP

	GATCCGGGTG	GAGACACGAA	AGTAGACAGA	CACGGACGGC	TGTTGGGTGG	AAGGAACTAC	60
	CTCGTGATA	CATTCCAGCT	GCCCCAAAAG	ACACATAATT	TCTATGTGCT	TGTCGACGAG	120
30	CTGATAGAGA	TTTTGCAATT	CGAGGGGAGC	GGCTCTGACT	TTTTGCACCT	GCATAATCAG	180
	CTGTACCCGC	TGGAGCTCAA	AGACAACGAG	CGGGCCTTGC	TTGCAGACGC	TGGGTGTGATC	240
	AAAGGCGAGC	TGCGCTCCCC	ATACTACGTT	ACTGCACCTC	CTTCATACAT	CATTTTTGGT	300
	GCTGCTATTG	TGGCGAGCGG	CTGTAGGATA	ATAGATGACT	ACTGGGAGCA	GCCCTTAAAG	360
	GAGCAGGGAT	TCACCATGCA	CCACCGTGTA	TTCTCTCTGA	ACGGCACGCA	ACTTTTCATTG	420
	CTACGCCTGC	TGAAACCCCC	GCGTCCAGAA	TCCGATCAGC	AGGGTGAGAA	GCTGGATACC	480
	AACTGGCTAC	AGAAGTGGGA	GGATCCATAC	CCAACGATCC	AGGAACAACC	AAATGCTGAA	540
35	GCACGGCGGG	AATACGCTAG	AGAACACGCC	AGAGGTGAGC	ACATAACGAT	GATTGTTCCA	600
	GGTCAAAAGTA	TTAGCGGCAG	TATAGAACTG	AGCCTAAATT	ATAAACTTCC	TAAGTACCAC	660
	TACAAAAACT	CATTTGCTAA	TGGGTGTA				

1460UP

40	GATCCAACAA	TTCCCGCAGC	GCCGCTCCAG	CCGTGCTCTC	CGTCGCATCA	AATGAGTCCA	60
	CGCCTGTCTC	AATCCCGCAC	AGCTGCCGTC	CATGCGCCAC	CTCGAACTGC	ATCCGCGACG	120
	CAAAACAGCTG	GATAAACAGC	CCGTCTGTCT	CGCACCCCCG	COCGAGCTGT	CCAAAGAGCG	180
	CCTCCGCACC	AGCTGCTATA	TCATCGCCCC	AGAAACTCTC	TACGAATGCC	CCCATCGCCG	240
45	TGTACCTCGT	CGTAGTTGTG	CATGTCGCTG	CCTCTTCCGG	CTGAATTTTG	ACAGTCTGGC	300
	CCCCACCCC	AGCTCCGGAA	CGCTACGTAA	TACAACACAC	AACCAAATGC	CCTACCCGAA	360
	GGTCGCAATC	GTCTTCTGCA	CCGGCTGCCG	CTGGGGCTTG	CGCGCAAGCT	GGTATGCTCA	420
	AGAGTTGCTA	CAGACTTTTCG	GCGACTCCCT	AGCCGAGATT	GCCCTCGTAC	CGGGTCCGTC	480
	CGGTCAATTTC	CAAGTCCTCT	GTTACGCAAG	CCAAGAACAA	GAGGCCACGG	GACAGCGGCA	540
	ACACCATCTG	GGATCGGGCG	CGCGACAATG	GTTTTCTCTGA	TAGTAAATAT	CTGAAGCAGG	600
50	CTGTCAAGCC	ACTCTTTTTG	CAGACAGCGG	AACCGCCTGG	GCGCCACAT		

1461RP

	GATCAAAACCA	CCACGGCACA	TCATCATAGT	TGATTAAATC	AATTAGGTAA	GGCAACCATA	60
	GTTCAGACT	TTGTTTCTGT	ACCATTTTCT	TGGGATTAAA	GAAGTAGGGA	GTCACGAGGA	120
5	AATGCACCGC	ACATGCTTTG	AGATTGGTGT	TTTGGGATTT	TAGAAGGCCA	GTAACGAAGA	180
	CGGTGAACGA	GCTGTCCAGC	CATAGATTAT	TTTTAACTGG	ATGAACCTTG	TAGCACTCGA	240
	TGTATAGGAC	AATCGCCAAC	CAGAGCAATG	TCTCGTGCAA	CGGGTTCTGG	ATGACAAGCG	300
	CACGCGGGGT	GCTCGTGAAT	GGTAGGAGTT	GGTTGCTTCC	TATCCCACGG	TTGCTAAATG	360
	CCATGTACTC	TTGGTCCTTG	GGGTTCCGGC	CGACGCTGAC	CTTTAAAATG	TATTTGAGGT	420
	CCAACGGGTG	ACCATAGCGG	TCCACTAGTG	ATAGCATGAG	TGCCTCTAAC	GGCAGAAGAA	480
10	GCCCTTGCGG	AAGCGAAACC	ACCTCCCGGC	ATTTGAGCAC	CGCAGACATT	AACTCCAAAA	540
	GCGTGTGGC	CCAGGAGATC	TCTGCTCGGG	AGTCATCTGC	TTCTCATTTCA	TCCCCGAGGA	600
	AGTGATCAA	AAGCCCGGGC	AAACCCACGG	GCACAGCCCC	CCGCACATCC	GCGTCCCCAT	660
	TACAGTAGTC	TATCCCACAG	TTGTTCAA				

1461UP

	GATCGCGCAG	TTTAAACTTA	AAGTTGATAG	AGTTCCCGTC	GTGCTCTCTG	GATACAATAG	60
	AGGCCACCGA	GTCGACGTGG	CCCTGCACGT	AGTGCCCGCC	GTAGCGCCTG	TCGTCCGAGA	120
	TGGCCCTTTC	TAGGTTGATC	TTGGAGCCAG	CTTTCCAGCT	GCTGACTTCC	GTCCGATAAA	180
20	CTGTTTCTGG	TGCGATCCCG	ACCTTGAAGC	TATCGGCCGT	GAACCTCCGT	ACCGTCAGGC	240
	AGATACCATT	GCATGCAATC	GAGTCACCGA	TGTGGCAATC	CGCCAGTATC	GGAGCCGACT	300
	CCTTGATAAG	GACTGACACA	CCGTTGCCCG	CTGCCCTCGT	GGCATCGTTC	TCCAAGTACT	360
	CAGCAACAGT	GCCAATGTGT	TCCACTATAC	CGGTAAACAT	CCTATCAACT	TCTATGGGCG	420
	ATATAGGCTT	CGGTATGCCA	TCTATGCATC	TTCTTTTCTG	CTACCGCGAG	CTTTTAAAC	480
	TCGTAAGACA	TGCATAAGGA	AATGGCGGTT	CGCCATGTAG	CTGACTAATA	AAACTAGAAG	540
	ATACGACTAA	CTATCTGATT	ATACTTTAGG	ACTATCTCTC	CTTGCGCTGG	TCACAGAAAC	600
25	ATCGTTGAGC	AAGTCGCGTC	TATCGGGAAA	ATCACTTGGT	TCCTTTGTCT	TAGAGCTAAC	660
	TGCTTGAGAA	GCTGGAAAGC	GCTCTTTTAA	AGTCTACTTC	GAATGGTGGT	GTACGTCTGG	720
	GTGCTGGC						

1462RP

	GATCTTAATT	TAAAATTTTA	ATTAACATTT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATAAAAT	TAGTAAAATA	120
	AATAGAAAAC	CATAAGTTAA	TTGATTCATA	AAGAAAAATG	GAATTAATTT	TGGCATCTTA	180
	ATTTTTATTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
35	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTAAATATT	300
	AAATATAACA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCATTGTATAT	ATATAATTAT	TAAATGTACC	420
	TTTCATAATA	TTTTATTTTA	TTAGTCTAGT	AATATTTCTA	TTTAATAGTC	TACCCTTTAA	480
	TTGGATATTA	CTACCTACTA	AATATTTACC	TAATAATATA	TTATTAAGAA	TACTTAAATC	540
	TAATAATTTA	TTATCTAAAG	TATATAAATT	AATTAAACTT	TTTTATTATT	ATTTAAATTA	600
40	TTATTAATTA	GTAAATTATA	TTTATTTATT	TTATTAACAT	AATTTTTTGG	ATAATAATAT	660
	ATCATTATTA	AATGGTAATT	TATTAATAAT	TATCTTAATG	A		

1462UP

	GATCAATTAA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
45	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAATGA	ATACTACTAA	ATCATCATCT	120
	ATGAGTTTAA	TATTAAATTC	ACCACCTCTT	ATTCAATTCAT	TTAATACTCC	TCTAATTCAA	180
	TCTTAAAATA	TTCTTAATTA	TTAAATTATA	TAATAAAAGT	TAGTGGATAT	AGTTTAATTG	240
	GTAAAAACATA	TGTTTTAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATTAT	300
	ATCATTAATA	TAATAACTCT	TTAATTAGAG	TGGTACCACA	AGAATGCTGA	AAGCATTAGG	360
50	GGTGTGTACC	TTAGCTCTCT	AATTAAAGTT	ATAAAAATTAT	CTTAACCTAAT	AAAAATAATT	420
	AATTAATAAA	ATAAATAATT	AATTAAATTT	AAAAATGTTT	AAAAAAGAAA	TAAATAATAT	480
	GTTATATTTA	AATAGATCAA	AATTTCAACA	ATTTCCATTT	CATTTAGTAC	TACCATCACC	540
	ATGACCAATT	GTTACATCAT	TTAGTTTATT	AGGTTTACTA	TTAACTTTAG	CTTTTACTAT	600
	ACATGGTATT	ATTGGTAATA	TTTATCCTTT	ATTATTATCT	TTATTAGTAG	TTTTATTACT	660
	AATAACTTTA	TGATTTAGAG	ATATGGTAGC	TGAACCTTACT	TATTTAGGTG	ATCATACTTT	720

AGCTGTAA

1463RP

	GATCCCTGAG	TCTGCTACCA	AGGAGGTCGA	GGAGGAGGAC	ATCGATATCG	AGCAATTGAA	60
	GCAGGAGATG	AAAGGCAACA	AGGAGGCCCTC	TGCTTTGTAA	GCTTGCTGTT	TGCCGCTTGT	120
5	GCTAGCCAAT	CGTTGCTGAG	ACTATCTAAC	TTGTATACAT	GCCGCTATCG	CGGCACGCGA	180
	AGCGAACACT	ATAATGTATA	TGTCAAAGTTA	AATACATCAT	ATATTATCTT	GTGCCTCAAG	240
	GGTCTTAAAG	ATGTCATAGG	ACAGTCGCGT	GCTCAGACAC	ACGAATATAA	TCATAATAAT	300
	AAATATATGG	CGGTCAGCTT	CATGACCACG	TCAAAGCCTTG	ATACCAGAAG	ACACTTCTAG	360
	GAATTTCTCA	ACGGGAGAGA	AAACACTAGG	GTGTAGGTCG	TCATTCTGCA	AGGACATCTG	420
	CTCCTCGGTC	CACAAGTTGG	CCTCTGGTAC	ATAGTCTGGT	TCACCGACAC	CCAATAAGCC	480
10	ACCGTGCGCA	GCCCAATCCG	TGACACGTGG	AAGCTGTAGT	GTCTTCCAGA	CGTCATCCAT	540
	GGCGTCCAAAT	AGGACATCCG	ACAGGTCGTT	CGTGTGGCCT	GGAGTAGGAA	TGATACGGAG	600
	TCTCTCGGTC	CCGCGTGGAA	CGGTAGGAGT	TGAAGGGCCT	GTACGTAGAT	GCGATGCTCT	660
	CCATCAAAAT	GTCGGAAGCA	CGCTTGGC				

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1463UP

	GATCAAACAG	TAGAAGTATT	AGAGCTGCTT	GCAAAGGGCG	TCATAAACAA	GAGAGCTGTA	60
	ATGTCGACAA	ATTAAACAGA	AAAATATCAT	TATTAGTGGA	TAAATAACCA	ACTTGCACTG	120
	AGAGTATAGT	TCTACATGTT	TATTCCGTAA	CAGAAATTTCT	ATCCAAATAG	TTTAATTCCG	180
20	TTTTACTTAT	CTACGGAGTA	GCAGTGCAAG	AACCTTGTAT	CCCCAAATGC	TAGAGGGACA	240
	TGCAGATGTA	TAGTAAAGCA	ACGCTGTGTT	CTTTGGATTT	AGCAGCGTCA	GGCGAACAAA	300
	AAAAATAGAA	AGTCAACAGG	GATTGGGAAG	TTATGAGAGT	TGATATGTTT	GTCCATTAGT	360
	AAGTCATTCA	GTTGATATGA	GGTGCCTTAA	TGTTTGTAA	AAGCAAGAAC	GAAGAGAGAT	420
	ACAAAATGTG	CAGTTGTGAA	TCGTGAAATT	GACACCAGAG	GACGTCACCT	CCCGTTGCCA	480
	CTGTTTGCCA	ATTGCTTCTC	GAGCTGCTCA	ACCTTGCGCT	GTAAATCTCT	ATTGACTTTC	540
25	TTTAGTAGTT	CCAATTCAAT	ATGCGTTTTCC	TTGATCTTC	CATAGCTGAG	CAGTTTCGCC	600
	ATCTCCTGGT	TCTCTTTTGT	CAACATTTCC	AGTCGGACAA	TCATCTTGTG	AGCGAGGGCT	660
	TCTTCGTCAT	AACGGCCGAA	TCGGGTAACG	GAATTAGAGG	GATT		

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1464RP

	GATCGAAATA	ACTTCCGCTG	AAAACGCAGC	AGAGGCAGCC	AATGGTCAAA	TGGAGCGAGA	60
	ATATCCACGA	TATTTCTAGG	GTACTGTTGC	TTGCCAGTTG	GTGCTCGGAA	ACATAACCCT	120
	CAATGGCGCC	CAGTGTGTTG	TACATACCCC	ACACCGGAAA	CAGACCCATG	AATGACCCGA	180
	AAACCACCAG	CCACGCGCGT	AAGCCGCCAT	CCGGGTATTTC	GTGGAGTTA	TCGAGATATG	240
35	CGCGTTCTTC	TTCTCTTACC	TTTTCTGTCG	TGAGAGGGAC	AGTCTGCTGA	GCGCAGCTGG	300
	TCGTTGGGCC	ATCGCCAAAA	AGCTCTTTGT	CGCCACACAG	TGTGGCTCTG	CCGCTGTCTAG	360
	ACGATGGGCT	CAGTGTAGG	GCTACGGGCT	CATCGCCATG	CCGTACTTGA	ACGCTGTCTT	420
	TGTCGATGAC	CACCATCGTT	CCTAGCACGT	ATGGGAGATG	CTCCGAACCG	CGTCAGCGCC	480
	ACCACAGACC	ATCTATCTAC	TTAAATACCT	AATTATCTGG	TGTCCAGCTA	AAAATCCGAG	540
	TATCAGTCAT	CCTGTGGCGG	CCTTATCACC	CAATTAGGGT	CGCTTTGCGG	TAGTGCATTA	600
40	CCGTCCGGCG	GATTCACTCT	CCAAAATGTC	TCAAGCGATG	CCTTGATTCC	GAGTGTACAA	660
	GGGCCAGATT	CCAACGGGCC	AGGAGGCAAC	TAATAGAGG			

1464UP

45	GATCTTGCGC	TTTTTCTTCA	GACCGCGGTG	GGTGTAGTAT	TGTTCCCTCT	TAATGTTGGA	60
	GTTGAGGCGG	GACGAAGAGG	GCGCAGAGGG	GTCTGGCGAG	GCACCGGTGG	AAAGGGGCCT	120
	GTCGGCGCGT	TGCAGGGGCA	GCGCGCGGTC	GTCGTGGTCG	TAGTCGTGAT	GTTGGGGCGC	180
	GGGCGGCGCC	GACTGTGCGT	CCAGCGGGTG	GCCGTCCGAC	GCGAGCGCCG	AGAACTCGGC	240
	GTCGCGGAAC	TCGTACTCCT	TCTGCGGGTG	CTCGCGGCGG	CGCTTGCCCG	GCGGGTCCAC	300
	GGCACGGCGC	GAGACCTTGA	GCCCGTTGGA	GATAATGAAC	TTGTGTTTGA	CCGAGCCCTT	360
50	CGGATGCTTC	TTTCCGCCAT	TGCGTTTGGG	CGCCGGCGTC	TGCGCGTCCG	GCACGGGCGC	420
	GGCCGGCGCG	GCAATGCAAT	CGTTCTCGTC	TGGCGAGACT	GGGGGGGGAT	AAACTCGCCC	480
	AGGATCGCGT	CCACGTTAGT	GAGGTCGCGG	TTGCCGTCTT	CTCGCGCTGC	GTGGTGGTGG	540
	TTGGCGCGGT	GAGCCGCGTG	CACCGCGTCC	TCTCTGTTGG	GCTTGGGCTC	CTGCTCGGC	600
	ATGCCCGGTT	CGGCTGCATG	CCTCCAATCG	ACTTCGACGT	CGTACGATCC	CATCCAACGA	660
	ACCCCGTAAC	TTATCTCGAA	GTATGCCTGC	ATACCTATAC	TGGTCGTTCA		

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1465RP

	GATCCACTTC	TTTGGCGACA	AGACATTGCA	GGGCGGCAAC	GACTGGGAAA	TCTACAACGA	60
	CCCGCGCACC	ATCGGCCACA	CGGTCCGCTC	CCCCGAGGAC	ACCGTGAGGA	TCCTCAGAGA	120
5	GCTGTTTCGAC	CTGTAGGCGC	CGCGGCTAGC	TAGTTCTTTG	TAATTGCTCG	ACATTTACAA	180
	TGCATATTCC	TATATACACC	GCGCGCAGCG	CTCAGCTGAG	CAGCCGTACG	TACGCCAGCA	240
	CGAGCGCAAA	CGTACCCGTG	CACACGCCGA	TCAGCCACTG	CATGACCTGC	GTCTTGACCG	300
	AGTCGATTTG	CATCTTCATA	TTACTGACCT	CCTGGTCAAT	TCGCGTGTCA	ATCTCCTTGA	360
	TCTGCAGATT	GTGGTTGCTG	GACTCCTCCC	GGATGCGTCC	CTTTTCCAAC	GAGAGATCCA	420
	GCTTGAACCC	TGCGTTCCGC	TTCTGTGATCT	CCTCTCGGAG	CCGGTTCCGC	AGCTGCTCTA	480
10	GGTCGTTTCG	AATCCGCTCC	TGTTTCGTTCT	GGATGGAGTG	GATCTCGCTG	CGGTCCGCCG	540
	TCAGCAGTTG	GTCCCGCAGT	TTTGC AAAAT	CCACCCGCTG	CTGGTACGTC	AGCTTCGTAA	600
	GCTTCTCGCG	GGACGCTAGG	TCCTGCGAGA	CATGCGTCAC	GCCCCCGCGC	AGTGCCTCCG	660
	ACATGATATC	CACGATCGCA	TTCCGCTGCT	GGCTTGCTGA	AGT		

1465UP

	GATCCCCGAA	TAGCTTGATT	CGATCGTCTG	GTCGCGTACC	TGCTCGACTT	CTCTTGCTCT	60
	TCTCTATGTT	CGTTGCTCAC	GGCCGAAAAA	CCACTACAGC	ACAAAAAATT	CACAAGGTCC	120
	GCCGCACCAG	CCTTTTTAAT	TAGCGCAATG	GCAGCGAGTC	CTGGTATATA	AGGCAAAAGA	180
20	CGGGAGGCCG	ACAGCTACTA	CAGGCTCATC	GAGGCATGGT	ATGTTGCGCG	ACAGTGGCGG	240
	CAGGGGGCAG	AGCTAACCTT	GATGTTCCAT	AGAATGCGTT	GTACAACCAC	GCGGTGAAAC	300
	AGAAAAAGTT	GCTGGAGCAG	GAGCTGAAATC	GATTTGAGCT	CGGGGTGGCG	GCGCCGGTGG	360
	GGCTGCAGGG	TTCCATATCG	ACGGCACTGG	TGGGACTGGA	GCGCACAATT	GAGCAGTATC	420
	AGGCGCAGGT	GGCGCAAACG	GGCAGCGCGC	CGGAAGCCGG	CAAGCATGCG	CAGCGCGTGG	480
	GCGAACTGAC	GGAGTGCGCA	ACGAACGCGC	GGCGGCGGTT	CGAGGGGCTG	CGGGCCGCGA	540
25	GCATGCAGCC	GGTGGCGTTC	CAGAGCGGGG	CGGCAGCGCC	GGAGGGCGCC	GTGAACCAGC	600
	CGGCGGCGGG	GGCGCGCAC					

1466RP

	GATCTCTTAC	TTTTCTTACT	CACCAATGTC	TTTAACAGAC	ACCCAGAGTC	ACGGCCGGCA	60
	GCCTATCTGC	CGTGCTGGCG	CCATGCCCCG	CCCCTGGTAC	TGGCCCGCTC	GTGCTCGCGG	120
	TAGTCTCACA	GCAACGGAGC	TTGCTCCAAT	TGGGCTGCAT	TCTCCCGACC	ACAGTCTGTT	180
	TGTCACGTGA	CTCTCAGCCG	TCCCGAATGT	ACATTTCTAT	TTATCTACTT	CTTGCCGCCT	240
	TGCCGCCACC	ACATCCGGTG	CCGGGCAGCA	CACCGACCGC	GCATCGCGGC	CCTCGCGTTC	300
	GTAGAACTGC	GCACAGCAGC	TGTACAGTGC	CTCCACTGCC	GCCGCGCAAC	GGCCCTCTCT	360
35	GTACCCCTGTG	CGTTTCAGAC	ATGCCCTGGAT	CGCACATGCC	TGGGCCTTGC	ATGGGGGCTG	420
	TCCCTCTGCG	CTGCGCGGCC	TATTTGTCAT	GTTTGTGTTT	CTATCTGTTG	GCCGGTACCA	480
	CGTTGTGTGA	CCAGAGTACA	TTGTGCGGGT	GACCCCGTGT	AATGTCACCC	CGTGGGCCAC	540
	AGATGACCCCT	GCCACATGCC	TCATTTCTTT	GACCGCACCG	TGCCGCGAGA	CCGCCACAT	600
	GGGCCGTGCG	CACCTCCGACG	ACACCCACGG	GGCGGCACTG	CAAGGGTCGC	AGGTGCGGAT	660
40	GAGTCAAAAC	AAACCAGGTG	TGGCGCTGGG	CGGGTGAAAA	TCGACTCATA	GAGAC	

1466UP

	GATCTTATTA	ATTTTGATGG	TGCTATATTC	TAAATTCAAG	TAATGATAGC	GCGTGATGCG	60
	GTACGTACCT	ATACATATAA	CGCACAGTTC	ACCATCGTCT	ATGCGTGTAT	GAAAATCACT	120
45	CCAGCCGTGC	GACACGCCAC	GTGTAATCTA	GTGAGTTTCA	AGTTCTTCCT	CCTCATCGGC	180
	AGAAAGTTTCG	CCCGCGGCGG	TGAGGTTCTT	GAGCCGCTCC	TTGAGCTGCG	CGATAAGGCT	240
	ATTCTCCCTT	TGAGCATGCA	TGCGGATACC	CTCTAGAGAC	ATATGAGCCG	AATCTGCACC	300
	ATCTAAACCA	TGTTGCTGTG	TGCTGCCAGT	GGCAGCTGCC	AGTTTGGGAC	TGGACAGACC	360
	TGTCTGTCCA	TCTTTGTAAG	AATCCTCGGT	CGTTGCCGAG	TTGGAATTCA	TGGTTCCCAT	420
50	AGTGTGCAAG	ATTTTCTCCT	CTTCTGTTAG	TTCCAGATGG	GTACCTGTCA	GATTGATCAA	480
	GGACCTGCCG	CTTTTACGGC	GCGAGAGCTT	GGGCAGAAGA	GAGTGCCCGG	TTGGCGTCCG	540
	TTCAACCAAGG	TTTGTAAATGG	AGGTGTGAGA	TCTCGGAGTC	CTTGGTAGTC	TCAGACACGA	600
	AGCACCGGCA	TCATGTATCC	ACTTCGCAAC	AAGCGAAGTC	CAGCCACACT	GGTGTGATGC	660
	GCCCCAAGCCC	CTACCAAGTGT	CACCATCGAA	GTAT			

1467RP

	GATCGCAGAC	TCCGCCGGAG	AGACTTTTCGC	ACCTCGGGCA	CAGGTCTTGA	AAGAGAGCTC	60
	CGGCCGTTCC	GTGCCAGACT	CTTGTTTATC	ATGTCCGTAA	GAGCAGCGTT	CGTGCCAGGT	120
5	ACGCCCTTCT	TGTTCTGTGT	TCCACCAATT	GATGGAATTT	GAGACGTGAA	CCTCTGCGGA	180
	TTCRRKCTAT	TGAGCACACC	ATTGGCACCA	CTTGAGCCCC	TTCGCTCTGC	CATCCCTAAT	240
	CGTCCATACC	TACGGCCGGC	TAATAAGTTA	CTACCAGACT	CTGGCCCTCA	TCTGGGACTG	300
	ATGTTATCGT	CTGCAGCCAG	ATCCTGTTTG	TGACCCGATC	GAAATCATCG	AGTACGAATA	360
	ACCACGTGAC	CATTATTAC	GTGATGAATT	TGGCGGTCCC	TGTTGCCGAC	TCTTACTCCA	420
	GGTTAACCAT	GACTAGATGG	GCATACCTCA	GATACGTTAT	TCATGGGATC	CGGAGTTGCC	480
10	GCGTCGGCCG	AACCGCCCGG	TGAATCTGTG	CTGACGACCT	AAAAAATAGT	GTGCGCAAGC	540
	TTCTTTAATC	TGTGAGATGC	ACACTGACAA	ACTTGAAGGC	TGAACCATCA	AAGCGATACG	600
	CCTCATGCAC	GTGCTCAATA	AGGTCCAGGA	AGTCTCGCAA	TGGGGCAAGC	AGACGGTAGA	660
	TTGCAAGACA	CAGACGATTG	GGTTGTGCCA				

1467UP

	GATCGTCCGA	GTGCAAAATCC	ATACCAAAAA	TGTGGACCCA	GGTACGGGAT	TCGAACTTCT	60
	CGAAGAAAAA	TAGCCTCAGT	GAAGTGCCCA	ATTGCCTTAT	AGTCGTTTTG	CAGAGCATAT	120
	AGAAATGTGG	GACAAGGCGG	TGGGGGGGCT	TGTCGGACGC	GACCGAAGAA	GGGATCTGGG	180
20	CGGGAATTAC	GGCGGTGAGA	GGCAGGGGTG	CGGAAGAGAA	AAAGGTGAAG	CGAGTTGTTG	240
	CCATGAGCGA	GATGCAGCAG	CCAATACCTA	TCCCAATGGT	AAACGAGGCG	GTCCAGATGG	300
	CCCAATGGCG	GAGGGCAACA	GGGCCCCGCT	CCTTTTTGCG	CGGTCTGCGG	TGCTGTTTTCT	360
	TGGACTTGAC	GGTCAGCTCG	GTTTCATAGC	CGGACTCGGA	CTCGTTGCAA	AGGTTGTGCA	420
	GGTGCTTGAG	CAGGCGGTGC	TTCTCGTGCT	GGTTGGACAT	GATTATAGGG	CTGCAGTATA	480
	CTCGGATGCA	TTTGCGTGCG	GTCTCGTGCT	TCAGGAGAGC	CGCCAGCGTG	CTCTTCTGGC	540
25	CCTTCTGGCA	CACGGGAATC	ACGGTGGGGC	AGGGCGCCTT	CTCGCACAGG	CCGTCCAAGA	600
	GCTCTGGCGC	CTGCGCTATG	TCGTGGAAGA	CCACCATAAC	CGCGAGGTAC	CGCTGGCCCA	660
	CGTCCCAGCG	CGTGACCATG	CCGAGGTTCT	TCACGTCAAA			

1468RP

	GATCTCGTCG	CTCATTTGTCG	ACCTGCAAAA	AGTGTTCAGA	AGGAAGGCAA	CATGTGTTTT	60
	TAATCCTACG	GCCGTGGCCT	CAGAGATTGT	TCACTCAATG	TCGTTTCATCA	TTATGAATGG	120
	GTCCGCCGGC	CCTGCCGGCC	TCGAACCCGC	GCCACACGGC	CTCCGCCGCG	CGCTGCCCCG	180
	CTGGGCCACG	CAGGGTCCAA	AAACCCACCA	AACTCACCGC	GCCCACCCGG	CTACACCCGC	240
35	GCCAGCACGT	CACGTGCGGT	TACCCGCCCT	GCCGGCACTG	AAAATTTTTT	GCCGCCAACA	300
	CTATCGCGCC	CGAAAAAGCA	ATTTGCCGGC	CAACCAACAC	ACGATCTGTT	ACCGAACAGG	360
	ACAGGACTCA	TGCCCCGTTT	CCTTCTTTAT	TTATTTACTA	GCTCCACATA	GATATTTTTG	420
	ATATTTATAT	GGTGTGTTTT	CCTCCGCACG	CCGCAACCCA	GCACTTAGCA	GACCACGGGG	480
	GCAGGGACTG	ACACCCAGCC	AGAACAGAAC	AACAACAGGC	GACCTTACAA	TGAGCATGGA	540
	AACGCCCCCT	GTAGATATCG	ACAACATCAT	CGACCGCTTG	CTGGAGGTGC	GGGGCTCGAA	600
40	GCCGGGGCAG	CAGGTGGACC	TCGAAGAGCA	CGAGATCCGC	TACCTGTGCT	CCAAGGGCCG	660
	CAGCATCTTT	ATCAAGCAGC	CCATTCTTC				

1468UP

	GATCTCAGAA	TTATCGGCTA	GCAATTGATA	TTAGCATACT	TAATTCGTGC	TAAATACTTT	60
45	GGCATCGCAT	CTAGACATAG	GAAGTAACCT	CAAAAAAGCT	ACGCAGATAG	TAAACCTGGA	120
	AGAGAGATTG	CGCAACAACA	ACGGCCAGTT	GGAAAAATAG	CCACCACTTG	ACCCTGTCTAT	180
	TTGTAGACTC	AGCAGTGTTT	CTGTGTGTGC	GTTTCGGAAT	CTCGATGTAC	TGTTGTCTCGT	240
	TCATTACTTC	CATTGTGAGC	ATGGAGAGCT	TGCGCACCGC	ACCCTCTAGC	GTCTCCGAGC	300
	TGGAATCAGC	GGCATCGGGG	GAGAGAACAC	CGTAGGTATT	AAACGTGACA	TCCTTAGTCA	360
50	GGTAGCCCGA	ATTGTGCTTC	GCAAAGCAGT	ACTGGTATTT	GCCATCTGTA	GGCGCCTTCA	420
	AGGTCAACTC	ACCGTGCGAC	GACGCACGCT	GCGCATCCAG	CACTGACCGT	CCGTCAATCC	480
	CGTACACCAG	CAGGCTCTCA	GACAGCTGTT	GATGTGATTG	TGGGTCTCTG	TCGCCGAATT	540
	GATAAGTGAT	TGTCAAGCAG	TCCCCGCCTT	TCAACTGCTC	AAAGAAACAG	CGCCGCCCGT	600
	AGGGGGGAAG	AAGTACATTG					

1469RP

	GATCAACTAC	ATCTGCGAGC	AGCAGCCGAA	TTGTAAGGTG	GCCATCATAG	CATATGACAA	60
	GTGGCTGCGT	TTCTTCAACC	TGCGCCCGGA	GTGAGGCCAG	GCACAGGAGC	TGATTGTGTC	120
5	CGAGCTCAGA	GAAGTCTTCC	TGCGGCTGTA	CAGCGGCCCTC	TTCTGTAGGC	CTGCGGAGGC	180
	AATGCATGTC	ATACAGGACA	CGTTGGTCAA	GCTCGAGTCG	TTTATCCAGG	ACGACAAGCT	240
	CTCGCACGGC	GCCGAGGCGT	GCTTCGGGTC	GGCGCTCGAG	GCCGCGCTGC	TGGCGCTGGA	300
	CACTGCCACC	AATGGTAATG	GCGGCAAGAT	CATTGCGACT	CTGAACACGC	TGCCCCACCGT	360
	GGGCAACGGC	AATCTGACGC	TGCGGCGCGA	CGACGGCCTC	AAGAAGAGCC	TGAAGTGCGA	420
	CAACAGCTTC	TACACCGCGC	TGGCGGACAG	GATGCTGAAG	GCGTACGTCG	GCCTGGACCT	480
10	CTTCTGCACA	GGCAGCGCCT	TCATGGACTT	TGCCACGCTC	GGCCACCCCG	TGCTGGCCAC	540
	CTCCGGGACG	TTCCGCCACT	ACTCGAATTT	CCAGCTCGAC	GCGACGAGTT	CCCGCTGGGT	600
	CAACGACATG	CTGCACGCCG	TCAGCAGCAC	CGTCGGCTAC	CAGGCGCAGC	TCAAGGTGCG	660
	CTGCTCCTCG	GGGCTGTCTG	CAGTCG				

1469UP

	GATCGGGCGA	GCAGGACTAG	AGATGAGCAG	CAATGACAGT	GATTATCTCC	TGGTTACCTT	60
	CAAACTCTTC	ACTCTCCTCA	AGAACTTGTT	ACCTGATGAC	TCCTTCTTAT	TGTCTGTGTC	120
	ACGCGCGCCC	GTGTAGGCGT	CTTCGTCTCT	CTCCTTCTCG	TCCTCAAGAT	AGCCAGAGTG	180
20	GGTCTTAGTC	AGCTTCAGGT	TGCCGTTTCT	GGGGTCGGGG	CCAATCGCCG	ACGCGGACGG	240
	AGGGCTTTTC	GCCAGCCTGT	GGCTCAGAGA	CTTCTTCTTG	CCCACCGTGC	TCTGCTTCAT	300
	CGCCTCTATA	GCGACAGGGG	CCGCCGGCGC	GCCGTCGAGG	AACGTCGTGG	AGCCAAGCCC	360
	CTGTGTACAG	GGCCCATGCA	CAAGGTCCGC	GGTTACCTTG	GCGTCGAACT	CGCTCACCTC	420
	CGAATGGTTC	TTGATAGCGT	TCACCGTCGA	CGACGAGCGC	TCGCCGACGT	CGCGGCGCGA	480
	ATACAGGTAC	GAGTCGTCTG	CCTCGTCTGAT	GCCGAAGACC	TCGTTTCATCG	CAGACTTGTG	540
25	TGCGGTGGCC	CCGACAACGT	CGAGTTCGGC	CG			

1470RP

	GATCTTGCTG	CTATCCAGAA	ATGGGAAGTT	CTTAGACRAC	GGGGAATTAA	GCCCCTTTTC	60
	CAATATTTTG	AGCGTCGTTT	CATAGCTCGG	AAGACGCAGC	AGAAGCCCCC	CCAGTAGTGT	120
	CTGTTTCATGT	TCGCTCATGA	AAGGTGTCTC	TATCAAATCT	AGCTCCATCA	TCGCAGAGTA	180
	GTTATTATCT	TTCTTCCAAG	ACAGACGCAC	ATGCCGCAAC	TTTCGTACAGG	TTACAGTAAA	240
	ATAATGGTAG	AACCGCGGAC	TCACAGAATC	GACGACCGCT	CGAAATGAAG	TCGGCCCCGTA	300
	GAAGATCGTG	CGGCCCTGCT	TCTCTATCAC	AAGATGGAAC	TGCGAAAGTC	TGTTTCACGGG	360
	GGACACCGTG	CCCATAACGT	GCTTCTGCGT	GAACAGCTGC	GGTACCATCT	CGCTCTTCAT	420
35	CCGCGCGAGC	TCAGTCTCAA	GCTCGTCGAT	CCGTTCGCAGC	AGCTCCACAT	TGGGCGTTCTG	480
	AGCTGAACAG	CTCCCGTGAG	TTACGTCGCT	GCGTAAACTC	AGACAGGTAC	ACACACTCGG	540
	GCAGGCCCTT	CCCAATACAT	TTAGAGCACT	TCGGCCGCGC	CTTGTTGCAC	TTGACGCGCC	600
	GCTTGCGGCA	GAACACGCAC	GACTTGCTGA	CCTTCCGCCT	GGTTTTTACA	ATCTTGCCAT	660
	CGGACTCTGC	CATCCCGCCA	GCTTCAGCAA	AATGAGTAG			

1470UP

	GATCGCGGAC	GTGGAACACT	GGCCGGAGAT	GCGCGCGGCC	ATCCTGGTGG	TTTCTGCGGA	60
	CCGCAAGGAC	ACGCCATCGA	CGAGCGGTAT	GCAGCAGACG	GTGCACACGT	CGGACCTCTT	120
45	CAAGGAGCGC	GTCGCGACGG	TGGTGCCGCG	GCGGTACGGA	GAGATGGCGG	CGGCGATCCG	180
	CGCGCGCGAC	TTGCGGACGT	TTGCGCGCCT	GACGATGCAG	GACTCGAACT	CGTTTTCACGC	240
	CACCTGCCCTG	GACTCATTTT	CGCCGATCTT	CTACATGAAC	GACACTTCGC	GCCGGATTGT	300
	CAAGCTGTGT	CATCTGATCA	ACGAGTTCTA	CAACGAGACC	ATCGTGCGGT	ACACGTTTGA	360
	CGCGGGTCCG	AACGCGGTGC	TCTATTACTT	GGCGGAGAAC	GAGGCGCGGC	TCTGCGGCTT	420
	CCTCTCTGCC	GTCCTTGGCG	CCAACGACGG	CTGGGAGACC	ACGTTCTCGA	CGGAGCAGCG	480
50	GCCCACTTCG	CCGCGCAGTT	CGACGAGTTC	GTGCGCGGCA	AGCTTGCGAC	GGACCTGGAC	540
	GACGAGTTGC	ACAGAGGAGT	TGCCCGCCTC	ATCTTCACGA	AGGTGCGGCA	GGGCCCCAAG	600
	ACACTAAATC	CTCGCTCATC	GACCCCGAGA	CGGGCCTGCC	CCGCTGACGC	TATTC	

1471RP

	GATCAATTAA	CTATCTAGAT	GAGTCTAATT	AATTAATATA	CTTAAAAGTC	CCGTTAATAT	60
	CATTAGCTAC	CCTATCGGAA	CAGACCGTCT	GCTACTAGGC	CGAAAGGGTA	AAGCAGTTGT	120
5	CAGTCAGTAC	TTGCTGTTGC	TTATGGAATG	CCTGTCTATAT	GCCGGCAGCT	TGTTTGTAC	180
	TGGAGTACGG	CGCGTGCCGC	CTTGACAGAG	GTACCCATGA	TTCTGAACGC	CAAGGTACCA	240
	CACCTTCTCTG	CCACATCTCC	TCGACCTCTT	CCAAAAGTCAA	ACCCTTTGTCT	TCGGGGACAA	300
	AGAAGAAGAT	GTAGAAGAAC	GCAAAGATCA	AACAACCCAT	GAACACGTAG	CCGTAGTAAA	360
	ACCTGATCGC	ATTGGTAATG	TATGGTGTA	AGAAGGCGAT	CAAAAAGCCCC	CATATCCAAT	420
	TCGCGGCTGT	GGCGATAGCC	ATGCCCTTGG	CTTTGACTCT	TAATGGGAAA	GTCTCCGAAA	480
10	CAATGACATA	CGCAATTGGG	GCCCAGGTAT	TTGCAAAGAA	GAAAAATGTA	GAGGCAGGTA	540
	AAAACAATCA	TAGCATTGCC	TGCCGGTCTG	GAAGAAGGCT	GATCGGGTCC	ATTGGGCCAT	600
	AGTCTTGTCA	CACCAACGGA	GGCAAAAATA	ACCATACAAA	CGGCCATTGC	CGCGGCACCG	660
	TAGAAGCAAA	CATTTCCTCC	TGCCAAATCT	ATCGACAGTG	TTACATTG		

1471UP

	GATCTTCGCC	TTCTTCTACA	TGTTCTTCTT	TGTCCCAGAG	ACAAAGGGTT	TGACTTTGGA	60
	AGAGGTCGAG	GAGATGTGGC	AGGAGGGTGT	CGTCCCATGG	AAGTCCGAGT	CCTGGACTCC	120
	TTCTTACAAG	AGAAATGCTT	ACGAGACTGA	GGAGGTGAAG	CCAGAGAAGA	CCTGGGCTTA	180
20	AAAACCTTAA	GCTTACAAC	TTTTTGTCT	GCTAATCATC	GGGTAAAAAC	CTAAACCTTA	240
	TCTATGTTCA	TTAATATTGT	TATGACGTTT	ACGAGATAGC	ATATGTAAAT	TACTATTAAA	300
	AATATGCGAT	TAATCTGTAT	TTATTAGTTG	TAATTGCAAT	GCCATATGAT	ACTGCAAAGC	360
	AATACATGCC	GAGATAACCA	ACGCCACTGA	GGCGGGACTG	GGCCCCCTCT	CCGGCCCCGGC	420
	GAACATGCC	GTCGTTGGTG	GGCCGCGTGC	CCGTCCGCGG	CCAGCCGCAT	GCCCCGTCGT	480
	GGTCATCGCC	CCACTTTCAA	ACTTTGTAA	CGAGCAGGAA	ATTAAGATT	GTTATAAATG	540
25	ATATCAAAT	TTTCGTCGTT	TCTTTTCAGT	GAGTAATATT	GTTCCGGCAC	CGCACGCCGA	600
	TGATGCCGCT	ACATCGCACA	GGGCCAAAGC	ACAGGTGCTA	AACTATTGCT	TAGTTGGCGT	660
	CGTTGAGCTC	GTTTATGCTT	AGTGGAATAT	CTGCAGCATA	TTCAATATCA	AGTCTGAA	

1472RP

	GATCTATCTC	CCAGCTTAGA	GAGACCGTCC	GGATGTAAGT	GATACCCAGA	CAGCCAATGA	60
	TACTGGTCAA	GTTTGTAGT	TTTATAAGAA	AACATATATT	AAACGGCTAA	AGACAGAAGG	120
	CGAAAAGCCC	GACTTTTATG	GGCGTAGAAG	TCGTGAAAAA	GGCGAAAAAC	TATATTTCCA	180
	CTTAGGGCTC	CTCCTTCCCT	ACGTAAACGC	GCATCATCAT	ACGCCTTCTG	TGAGTCAAGA	240
35	GCACTACGAC	ACGCCGTGCA	TTCCCTCATA	CAACCTTGCC	AACACATGAT	CATGTCCAAG	300
	GATATTGCTA	CGACCCGAGA	ACTGTCCGAA	CCAGACAAGT	ACTTCGTTGA	GCAGCGCGAT	360
	TTGCTGCTAC	AAGAAATCAC	CTCCACGTTA	GACTCCATCC	TGAACAACCT	AAATGGCCTG	420
	AATATTTCCC	TGGAGAACTC	CATCGCAGTA	GGCAAAGAGT	TTGAGAGCGT	GTCCGAGCTT	480
	TGGAAGGTCT	TTTACGACGG	ACTCGCGAAC	GGAGCGGCTC	CTGGAGTTGC	CGCAGCCAAC	540
	CCGTCTCTC	AGGACCTGCC	CACTGAGCCC	GTCGCCGCGC	ACCAGAATGC	TGCAGCGGGC	600
40	AATAGTGACG	CACCAGCGCC	ATCGCAGTAG	CGTTTGCACT	CTGCCCTGGC	TTTACACCCG	660
	TGCACCCACA	TTGCGCTCTA	CTTTTATGTG	TCATC			

1472UP

	GATCTCGATT	GAATGCCAAT	GAAGGTTTAT	GGCCGTCACG	GGAGGTATAA	CAGACTTGTA	60
	ACGACTTTTG	GTAAGACCCA	CGGTGAGGAA	GATAGCTGGT	TTAGCAGCGA	CGATGAGAAC	120
	CACGGCAGAC	CAGTTAGCGA	CGACACAACC	AAACTCAGCC	TGAGCCAAGA	TCGATGCAGC	180
	GAATTACCGG	AGGAGACGAT	AGGTGCGAAT	AGAAAACGTC	CGGCGGAGCG	AACGCAGACG	240
	GATCCGGTGT	GGGAGTTTCT	GGAACGCGCG	GCATCGGGGC	AGAAGCGGAG	AAGACGAGCA	300
	ACATGCGATT	CTACAGAATA	TAGAGAGAGT	GCCAGTCAAG	AGTTTCTAAA	CGCTGTGAAC	360
50	GTTGTGCAAG	GCAATAGTTC	TTCTCTCAAG	CCTGCAAAAG	AGGTAGTTGA	GCACTGGGCG	420
	GAGCTTGAGG	ATGTGCCAGA	GGATCGGGGC	AATAACGGGC	AGGCGGTCTA	TGGCAAAACA	480
	AGAACATGCT	GAAAGAGGAT	GAAGAGGAT	CTGACACCGA	AGCTGCTGCA	CATGAGTCTG	540
	ACGAACCGCT	GCACAGGGCG	ACGAAGCACT	ATCGCGGCAC	TTTAATGAGC	TGCGTACGAT	600
	GGGCGAGACT	CTTAAGTACA	GCGAAGATCT	GGACTTTATA	TTGTCCGACA	ACTCCATGAC	660
	GACACCGGAA	CATAGACGCA	CCACATGCTG	CGCTTGTTCT	TGGATATGAT	GAACAACGA	

1473RP

	GATCGCATCA	TCCGTGTACAC	CAAGCGCGAC	GTCTGCGCCG	CGCCCAACCC	CGCCGCGCTC	60
	CACCGCTGGC	ACGCCGAGAC	CGGCGACGAC	TACATGCTCC	TCGACGCCCG	CAGCGCCGCG	120
5	GACGCCGCGG	CGCTGCTCGC	CGCCGTGCGC	GCACGCTACG	ACGCCGCCGC	TGCCGCGCCC	180
	GGCGCGCTCC	CCCTCGGCTA	CGCCTGCTC	GTTCGCGGCA	TGCCCAACGT	CGGCAAGTCC	240
	ACGCTGGTCA	ACCGCCTCCG	CGCCTCCGGC	ACCGCGCGCC	GCGCCAAGGT	CGCCGCCACC	300
	GGCGCCCAAC	CCGGCGTCAC	GCGCGCTACC	AGTGAGTGCG	TGCGCATCGC	CGATCACCCG	360
	GCCGGCGTCT	TCATGCACGA	CACCCCGGGC	GTGCGCCTGC	CCGCCCGCGC	CTCCTCCGTG	420
	CGCCGGATGC	TCGCCCTTGC	TCTCGCCGGC	TGCGTCCGGC	CCGCCGTCTG	CGACCCCGTC	480
10	ATCCAGGCCG	ACTACTGCTC	TACCTCCTCA	ACCTTCAGGG	CCTGGCCCCC	TCCTACGCCG	540
	CCTACAGCCC	CCCCACCAAC	GACATCGCCG	CCCTGCTCGC	CGCCGTGTGC	ACCCGCCACC	600
	GCCTACGCTC	CGAGACCGCA	GCCGCCCTGC	ACTGGCTTGC	CATCCGGGCC	CCGGGCCTCT	660
	GCCTGGAACC	GGAAG					

1473UP

	GATCTAGACG	GAGTTATTAT	GCCGCGGCAC	CTCCAGCGAC	TGATACTCAA	GAATGTGCGC	60
	TCCGTGCGGT	GGTGGAGGTT	CCGAGAGATC	CACGAAATTA	CGCTAGATCC	TAATACGTTT	120
	ACCAAGAAAC	AGGGCTTTGT	GGGAACTATA	CACGGGCCACT	ATCAGGATCG	GGTGGAAGTG	180
20	CGGCAGATAA	ACAGGGCTGT	CATGAGTCAG	GACACATACT	TCCACTTTGA	TAGTCTTTTG	240
	AGGGCCAGGT	TCCAGAACCT	CAACTACATC	AGTCTGCACA	ACGTTTCCGA	GGAAATTACT	300
	GGCATCATAG	TGCCTCACCG	ACTGTATTGC	AATGGCCGCA	TCAGCATTGC	AGGCTGCGTC	360
	GTGAAGGGGG	TTGTAATGAT	CTAAACTTGC	CCGATATACC	CTATTGAGAA	ATAAACACAT	420
	GGGTGAAGTT	ATACATAGGC	GCGGAAGAAG	CCGCTTGAAT	ATTGATAGAC	CGAATAGTGC	480
	GATCAATGTA	ATTAAATAGA	TAGGTTACAG	CCCTACCGGG	CTGGCATTTC	GTCCGAGATT	540
25	GGTCTGCCTC	TACCAAGTCA	GCCAGTTACC	GGAGGGTGAA	GTAGTAGGAC	ATCATAACTC	600
	ATAAAAAACG	TTACATTCTG	TGTGCTTGTC	GGGAAATCAG	TAATCATGCA	GGTGCCTCGT	660
	GAAACCGAAG	GAAACGTAAT	GGCGTGGAAT	AAGTAAAGA	TGC		

1474RP

	GATCGTTTAC	TTTAATCACC	TGGGACGCAC	TGCCTTGCGG	TTCCAGCACT	GCCTGAAACT	60
	TGGCCAGGCG	TTGCATCACG	GCATTAAGCT	CCTGTACATC	GCGCTCGTGC	TGGGCCTCCA	120
	GCTGCAAGCG	CAGTTTACGC	CTGATATGCT	TCCCGCCCGG	TGTAGACATC	TGCGGCAAGC	180
	TAGGGTAGCT	GCCCGACCGC	CGCAGCGGCG	AGCTGCGCGC	GCCCTTGTC	GCCGTCTTCT	240
35	GTGCCCCAT	TAGTGGCCGT	ATCATCGTCT	CGATCCCGCC	GTTTGCCATC	ATCGGTATGG	300
	GTGTGTTGTA	ATCGTCAATT	ACCGCACTCC	AGTCTCTCGT	CAGGTCCGTA	AAACTTTGT	360
	CTTTTTTGCC	GCCAGCGTGG	TTAGACCCGC	CCGTGGTGT	GCTCCGAAGC	GGGCTCAAGT	420
	GCACGCCGCG	GTGGCTGCTG	CTGTGGCTCG	ACAGGGACGC	TGCATAGTCT	GCGACCTCCT	480
	GATGGCGCTA	ATATTCCCAT	CGCTATCTGC	AGGCTCCAGC	GATGGCGACG	CCAGCTGATT	540
	CGACTTCGCC	GATGACGGCG	TCTTCCACGA	CTTGATCAGC	GAGCCACAA	GCGACGAAGA	600
40	TGATGAATTT	GACTTTTGGT	ACATTTCTTT	GGACCCATTC	CCATTATGGG	GAACCGTCTT	660
	GATAGCCATC	ACAATGTATA	GCTCGCTACT	CTGAACCGCG	TGGCAACCAC	TGCAAC	

1474UP

	GATCGAATTC	TCACAGGCCA	GTACCTGCGT	ATTACAGGTT	TGCCATAGTA	TGATTAGAAC	60
	CGTAAAGCCC	AAGAATGCCA	GGGCCAAGAG	AGCTCTGGAG	AAAAAAGAGC	CGAAATTGAC	120
	GGAGAACGTG	AAGCAAGCGC	TTTTAATTC	TGGCCAAACT	TCGAATAAGC	TCTTGACAGA	180
	TGTTATGGTG	GACCTTGGTG	GACTCAAGAA	GCCTGATGTG	AAGCGCTTCA	CGCGGAAGAA	240
	CGAGCTTCGT	CCGTTTGGAG	ATGCGTCGGG	TGTCGAATTT	CTCAGCGAGA	AGAATGACAG	300
	CTCGTTGGTG	GTGGTCTGCT	CCAATCTGAA	GAAGCGGCGC	AACAACCTGA	CATTCAATAG	360
	GACGTTTGGG	TACAAGGTTT	ACGACATGAT	GGAGCTGCAG	ATTGCAGAGA	ACTACAAATT	420
50	GCTAGCGGAC	TTCCGGAAGC	AGACGTTTGC	AGTGGGGTTG	AAACCGATGT	TTTCTTTCCA	480
	AGGTGCGGCA	CCGTTTGGAG	ATGCGTCGGG	TGTCGAATTT	CTCAGCGAGA	AGAATGACAG	540
	CTTCCGCGGT	GAGGTGACCA	AGCTGCAAGA	CGTTGCAGGG	GCCATTGCCC	AACGTCTCTT	600
	GACGATCCAG	GGCGACTTTG	AGGATGGCGA	GCCATTGCCC	AACGTCTCTT	TCCGCGTCTA	660
	CAGGCTTAAG	ACGTACAGAA	GCAGCCAAGG	TGGTAAGAA			

1475RP

	GATCCGACCA	ACGAGCGCAT	CTGCAGCCAC	ATCGTTGATA	ACGTCACCAT	GATCGACGAA	60
	ACCGAGGAGG	ACCAGGGCGC	AAAGAAGGGC	GCCTTTGCTG	TTTGAAGCCG	GATCCTGCGG	120
5	CGTTCAACCG	TAAATAGTCT	TATAGCCAGC	ACGCCAGGCG	CCGGCCGGTT	CCTATGTAGT	180
	CCTGCAATCG	CTCGCTTGCT	AGCCGCACGA	TCACAGAATA	CAGCTACTTT	ATCCTAAATC	240
	CACTCCTATC	AAAATATCCA	GCCGCGACAT	TTGTTCTCTG	TCTCGTGGGA	TGTGGCGGTC	300
	GCCATTGTGG	AGTAGGGCCG	CAACTCGGAC	AGCGACCACA	GGTCGCCATC	ACAGCTGCCG	360
	GTCCCGTGTG	CGTCCCTGGA	ATCCTGCTCC	AAGCCCTTCT	GGTCAAAGCC	AGCCAAGCTC	420
	CCCTGTCTGA	TGGCGTCTC	GACCGCTGCG	TCCAGCAAAT	CCTGGTATGG	ATCTGCGCCG	480
10	ACGCTTCTGG	GGGCCGAGG	CGTTGTGTGA	AGCCAGTCGC	ACAGAGAGGG	TGTCGCTGTT	540
	AGCGCAACAG	ACGAGGCGCC	TGTGCCGGCC	GCATGGGCGG	CCGTGCCGAA	TGCGTGCGGG	600
	TTCATGTAAT	TGCTGCCCTG	GTCCGATGTG	TATTGTGTCT	GCGAACGGGA	AATCGGGGAC	660
	GCAGGAACGT	TGCGCTCGCC	GCCATCGTTC	TCGCAGCTCT	TCGGTTGCGG	CACCAAAGCC	720
	TCCTTCTGCA	GCATCCGCCC	TGAGCCGTT				

1475UP

	GATCTTCCGT	CCCGAGTACG	GTCGTCTCTT	CGAGATATNA	GCACGCAGCG	CAACTGTATC	60
	AAGCTAACCA	ACACAGTKCG	CACGCTTTTC	GAGCCGAGCT	CAGGCGCGAG	GTGAACCAGC	120
20	TCTGAGACAG	ACAGACGCCC	CTTGTTTACA	AGTAGCTCAA	TAACACGTCC	GGCTCGCTCG	180
	CCGAGGTGCG	ACCGCGCTAC	CTCTGTGTAC	AGGAAGGTTT	CAGGACTCAA	TGTCCTCATC	240
	TCCAGTGTGC	ATACCGGCAC	CTCCGCAGCA	CGCTCGTTTT	CGACTTGTCC	ACCTGCAGCA	300
	CCCATAGATC	CGTTTATTAT	GCACCTACGAC	CTCGCCCTCA	CCTCAAGCCA	GGGCCGTCTG	360
	GAACGCAATA	CTCGCTAGTG	CTAGTTCCCA	CCTAATATCT	ATCTCATCGC	CCATCGAGCA	420
	GCGGGCCAGC	TAAAAAATCA	CCACTGCGCG	CTCACCACGC	ACGGTTCACT	AAATACGAAA	480
25	CAGTTGTTCG	TCACGTGTTC	CTCACGTGAT	TTTACCCGGC	CCGTATAATA	TCGGGTTCTC	540
	AGCGCGCCGA	GCCAAGGACA	CTTCTGTAT	CATAACAAAC	CAGCACAGGC	GGTAGGAGCT	600
	ATCGGCAGAG	TCCCAATACC	CTTGCTACTG	TTGACATTAG	GTGGTTCAAA	TGAGTGTCTG	660
	TTTAGTTGGT	ACCAAGAGTG	TGGCGACAGC	CACATTGGGG	ATCTACACCG	GGATGGTGGT	720
	AACGCGGCAG	TTGGTCTCTC					

1476RP

	GATCGTATCG	CTAACTGTAA	TATCGAAAGA	AGCACAGACA	TCCCGGAAAA	ATGACATCTC	60
	AGTGACACTC	TTCAACAAAT	CATAAGAAGA	AAAGTATGTG	ACTAATGCTT	GCAGAAAAAT	120
35	AAATTGCTCG	CTACCAGTAA	GCGATGTTAG	TAGCGTGCCA	TGGCATTCAA	TAAATCGTAA	180
	GAGATACGTG	GGTGGTATCT	CGATGCTTTT	GAGGTACGCA	AAAATTGGGC	CATATAAATC	240
	GATCTTGAAT	GGTAGCCTTT	TGCATATCGA	TTCTTCAAGA	AGTCTGTTTA	TAAGTTCTTT	300
	ATCAGAATGC	TGCAATAGACT	GATGCAGGAG	AGCACTTAGC	ACATGCCCTT	TATTCTTAGG	360
	ATAGAGCAAA	TATTCTTTGA	ACGAAGCTGC	GTCTTTCCGG	AAGTCAGGCT	TCATACCATA	420
	AAGGTACATG	TATACATTCC	TTGCGACATC	CATATCCTCA	ATACTGCTTT	CAAGCATCGC	480
40	AAGGTAAAT	TCGTAGGAAA	ATTCCGGTAC	CCAGGAATGC	TGTTGAAATT	GCGTCCAGAG	540
	TTTGATATGCT	GTCCTGGGGT	GGTTCTTTCG	GACGGCCAAC	AGGAAGTTGG	GACAGAACCA	600
	GCGTCTGACA	GGGAAATCAAG	ACCATCTGTT	GAGCGAATTT	GCGTGAGAAAG	GCGATCAAGC	660
	AGCTTCACAG	CAACTTCCAG	GGAACTAAG	CTGACAAGCC	CAGCTAC		

1476UP

	GATCTGAAAC	TAACAACAGC	AGTGCGTGAA	CCAAGAGGCA	TTGGAGGCGT	ATGACGGCGT	60
	GTGCGAAGGC	AAGTACACTA	TCGGCTTGGG	CCAGACCAAC	ATGAGCTTTG	TGAACGACCG	120
	CGAGGACATC	TACTCGATGT	GTTTGACCGC	GTGCTCGAAC	TTGATGAAGA	ACTACGATAT	180
50	CAAGCCGGAA	AGCATCGGCC	GCCTCGAGGT	GGGTACGGAG	ACGTTGCTTG	ACAAGTCGAA	240
	GTCCGTGAAG	TCTATTTTGA	TGCAGTTGTT	CGGCGAGAAC	ACCGACTTGG	AGGGTGTCTGA	300
	TACCGTGAAC	GCCTGCTATG	GCGGTACTAA	CGCGTTGTTT	AACCTCTTGA	ACTGGATTTGA	360
	GTCCAGTTTCG	TGGGACGGTC	GTGACGCAAT	CGTTGTTTGT	GGTGACATCG	CAATCTACGA	420
	CAAGGGTGCC	GCCCCGCCCA	CTGGCGGTGC	GGGAACTGTC	GCTCTCCTGA	TCGGTCCAGA	480
	CGCCCCCAT	GTCTTTGACT	CTGTGCGTGG	CTCGTACATG	GAGCACGTCT	ACGACTTCTA	540
55	CAAGCCTGAC	TTCCGTCAGT	AGTATCCATA	CGTGGACGGC	CACCTCTCAC	TAACATGCTA	600
	CGTCAAGGGC	CGTCGACCAG	GCTTACCGCG	CCTTA			

1477RP

	GATCTTTGCG	AGGGACCACT	CTGCAATCCA	AGAAGACTAG	AGGAGTTGTC	TAGGACAACA	60
	AAGTTTATAA	GGAGACTTCT	GGTGTTTTAC	CGTCCTTTTC	GATACCGATT	CTCGACAGTA	120
5	TATTCAAAGG	CCAATAACGC	CAACAATAC	GTTAAAGTTG	GCTGCCAGTT	TTTCAACACA	180
	CTACTACAAC	ATTATGAGGG	CATAAAGGTG	CTTCTAGATG	ATAGCAAAAT	CATTCTCAG	240
	CTCGCCAGTA	CTCTCTATAA	GGCTATGGAA	GGGCATATTT	TACCCAGTAA	GCTCTTCTCC	300
	TCTTGGGCTC	TCCAGAATAC	GTTATGTGGC	TCCTACTTCA	AATTCCCTCG	ATTGCTAATG	360
	AAATCTAAGG	AAGGAATCAA	TATATTAGAA	AAATGGAACA	TGTTCACTGT	CATCTATAAA	420
	ATGTTTCAGC	CATCACCCCT	AGCGGAAGAA	TATTTGTTAC	TCATGCTTCC	AGAGTTGGAC	480
10	CTCTCTCACA	GCATACATTG	TAGGATTATT	TTTAGCAAAG	CGCTAGTCGA	CAGTAGAGAA	540
	GTCTATAAGGA	TCAATGCTAC	CAGGGTTTTA	GGCGAAATGA	TCAGCAGCGT	CAAATTATCT	600
	GATCCCACTC	TGGAAGAGTT	CATGTTA AAC	CTGTTGGTCG	CTCAGTTGTA	CGATTTATCG	660
	AGTGAAGTGG	TAGCAGTGGC	CGACCAGATA	CTGTACCATT	ACTGTTTAAAG	TCAAAGTAT	

1477UP

	GATCCGAATG	TCCTTAGTCT	GTGGGAAGGA	ACCGATGGTG	GTGGTTGGGA	ATAGCGGGAG	60
	CTTGAAAATT	GGCTGCTGCT	CCTTGAGACG	CTCCCCGAAT	GGTGCGGCTC	TCGTGGATAG	120
	CTTCTCGTTT	AAACCAGCAA	CACGTCCTGG	ACAGCAGGAT	CGTTGGTGAT	CGCAGAGGCG	180
20	GCACGCGCAG	CAATCGAGTC	TGCATTTGCC	TTCAACTCAG	AGGAAAAGTC	TTCCGCCAGAA	240
	GCGTTCTTAG	CGAGGACAAC	AACCTCATGG	AGCTTCTGGG	TTGCAAAAGA	GAACCAAGTCC	300
	TTGATCTCTG	GCTCCAAGGC	AGACTCGTTT	TCCAAGTCAA	CTGGAGTGTG	CAACAAGGAA	360
	GAGGACGTGG	CAACAATAAC	GCGGTCCCCCT	CCTAGTTTCT	CAATTGCTCT	AGAAATAGTG	420
	GCAGCCGACT	TCGCGAAGTC	ATTCTTCCAG	ATGTTTCTAC	CGTCAACAAC	ACCTACAGAC	480
	AACGACTGGT	TTTCGCCAAC	GATCGCTAGA	ACGTCGTCCA	ACTGCTCTGG	GTTTCTCACC	540
25	AAGTCGAAAT	GTAGGCCAGC	CACCTGGAAGA	TCCACAAGCG	CCTTCAAGTT	CGGAACGACT	600
	GTCCCGAAGT	AGGTGGTCAA	CACAATGTCT	AGAGACTTTT	CCGCACCTAT	ATGTTTCATAA	660
	GCGGTCTTAA	ACGCAGACTG	TACGTCTCTT	GCAAGATCTA	AGACCAACAC	AGGCTCATCC	720
	AGCTGA						

1478RP

	GATCATTATG	CATTTTATGA	TATACACTGC	TATCAAAGAC	GACCAGTCGG	TAGTGAATAC	60
	ACACCGGCTG	GCAGACACAA	CCAATGCCGA	GGATGAGGCT	AGTGAGGACG	AGTTAGAGGA	120
	GCTCGTTAGT	AGCACTGCAC	ACAGCGGCGA	TGCTACTAGC	GAGTGAAGAG	GTATTTTACC	180
35	TGAGCTTTGG	AATATATAGG	TAGGTGATGA	GCTTTACAAT	ACGTATTCCG	TAACAATGAA	240
	ATGCAGGAAC	TCCTCAAGCT	CTTTAAGTTC	TGTAAAAACG	GTATCAAAA	CCGTTTTTCC	300
	AGCGCTGTCT	CGCTAAATGA	CCTGGATTAT	CGCATTGCAA	TAGTTGCTGC	TCTTCAAGGT	360
	CAGATCTATG	ACGCCTTTTG	CGCCGAGGCT	GGTACGCGAT	TCGCTGCGTG	GCATGCGGAG	420
	GATCTTGTC	AATAGGCCTA	TCTGTTTGTT	TAGGCTAGCG	ATGTTGCGCT	CACGAGCATG	480
	GAGCGTATCG	GGCTCGCTTC	GTTGTGGAAG	CAGCTCGATG	GACGAACGAG	GAACAATGTT	540
	CAAGACGCAC	TCCGTAACAA	CTCTTTTAAC	CACCTGTAAG	TAGTTTCTAT	GCCTTATTCT	600
40	ACCCAAAACA	GGTCTTAATA	GGAGAAGGTC	ACCATCAGCT	CTATATTTAT	GCTTGGGAAGT	660
	TGCTGGCTTG	AGGCC					

1478UP

	GATCTGAGTA	TCAAGATACC	ATGAGCGATT	CTTGCTCACT	CTTGTAACGG	ACTGCCCGCG	60
	TTATCCAAGT	GCAGACAAGA	TGCAACATGC	ATACTGGCAG	ACCAGGCCCT	CTCGATCATC	120
	GAGTTGCTTT	AAGCAACATA	GTAGGAGGCT	TCGAAGGAGG	AGTTCTTCGG	CTACCTATGT	180
	AAGAGATGCA	GCGGATGGTT	ACTGCTGGTC	ACGTGCTAGA	ATCATATACC	ACGGAAAAGT	240
	GGATATGTTG	CTTGCCCTTT	AGATATGGCA	GTTTTGCCAC	CCTACTTGAC	ACAGCTGTAA	300
50	CAACGTTGAC	TAAGGATAAA	CAAGAGCTAC	TGTCAACGGG	CTATCCATAC	AATGACATCT	360
	GATCTAATGG	AGGTGGACTC	GGCCCATACA	CCGGATGTTT	ATAGCGCAAG	CAAGGACAAC	420
	GTTGACAAGT	TTGTGATCTT	GCTTCGCCAG	GTCTCCAAGA	CTACTATAAC	ATTGGACTCC	480
	CGTATGTTG	GGAAGTCTCT	TCGCGAGCTA	ATGTCTTTGC	GCAAGGAGCT	GCAGCAGCAG	540
	ACCCTACCA	TCCTTATCAC	GCTCCTATAT	CCGGACGACT	CGGCATTCAA	GGTGCCATTG	600
	CTTCGTGTGG	TGAACCAGAA	CTCAAAAGCA	GCGTCGAGGA	TGCGGAGGCA	TCCAGGGCA	660
55	AGTACCCCGC	AGACTTTATC	AGCTGACTGC	TGACGGCAAG	ATTGAC		

1479RP

	GATCCGCTTA	CAGTAGCATT	GTCTCCGCAG	GTTGCCTGCC	TCAATTTTAT	CCCGGCCCTC	60
	GAAGAACTCC	AACTCGAAGA	GGAAGTTCGT	GCGGCACTGG	CATAAATTGT	CTATGCCCCAG	120
5	CCCCTGTTGG	CAGAACGCAT	GCTTGCACTC	TGCAAACTGC	TGCACCTCGA	ATTCCGCGGAT	180
	CAAGAGCTGT	AGCTCCACGA	GCGCATCCTT	GGTAAGCCTG	CTGCCCTCCG	AGCGGTCCGC	240
	GCACCGTTTG	TCGATGCATT	CGTTGATCTC	CTCTGTTAGG	TTGCCGTCG	TCGTCCGCCA	300
	ATTCTCGAAA	AGCGTCCGGC	GCACTATCTC	CCTGCCGTGA	GGCACCTTGT	TCTCCTTGTT	360
	CCGCTCGTCG	TTTTCGTAGG	GCGAGGTGAC	TGATGATGAA	TCATTTCATA	AGCTGTTTTT	420
	ATTCCGGAGG	CTGCGCTTGC	GCTGCACGTT	CACGTCAAAT	GTTTTCAACG	CCCTCTTATA	480
10	AGGTCTTTTC	TCCATTATTA	TAGCACTATG	CCAAGATCCA	GATGTGGCAA	TCGTGGGATTA	540
	CTAGACCTGT	TGCGCCAGCA	TCGAGTTCTC	TTATATACAC	TGGCAGTTTG	TGTCTGACAC	600
	AAAGACGTAA	AATTGGGACT	ACGAAAAGGG	AGTCGCCAAA	CAAGTGGCAA	ACGTTGTAA	660
	AGGATAGTGT	ATATTTATAC	TATTAGTAAT	TATGT			

1479UP

	GATCCGGGCA	TTACGGTGCC	CATCTACGAG	GAGGACATTG	TCGGGGACCA	GGGCGGGACG	60
	GACGTAGACG	GGCAGCCGCA	GAAGCTGGGT	TCGTACCGGG	CGCGGGCCGG	GCGCTTCTCG	120
	AACACGCTGT	CCAACCTGCT	TCCCAGTATC	AGCGCGAAGC	TGCACCACAA	CCGGAAGGGC	180
20	GGGACGGGGA	AAGTCCGCGC	GCTGCTGCG	GACGCGGAGC	CGGGAGCCGG	GTCTACCGTG	240
	GTTGCGGGAG	AGATGGCGGG	CAGCATCACG	CCTCCGCAGG	ACCTACATAA	CGTGGTCAGC	300
	TTCCCCGAGC	CATACGGGCT	TGCACAGCCA	CGCACTTCGA	GCGAATCGTA	TACGTATGGT	360
	TCTGGATACA	GTGGCCACCT	GCAGCCCAAC	GTCTCCAACC	CTGCTACGCG	GACTCGGAAT	420
	AATACTGTAT	CTTCGCAGAT	TACTTCGCTT	TCAAGCATGG	GCCAGCTGGG	AACCCCCAGC	480
	ACGAGCAACA	TCTGGACCAA	CAATGGCTCA	AGCCCGGCAG	ATCCAATCAG	CAACATGCTC	540
25	ACGACGCAGT	TCAACCCGAT	CCCCCTCCCC	GACTTTGGCC	AGTCGAACCTA	CTACGACGTA	600
	ATCACGCAGC	AGCAGCCTCC	GCAGTCGACG	AACTCACTGA	ATGTGCCCTC	CGGGGGTAAT	660
	ATTTCTGGGA	AAAACGTACT	CGTTCTCAAT	CTAATGCTTC	TAGCATATAC	GCAGAT	

1480RP

	GATCCTCTGA	GGCGAGCCCT	ATCCCAAGTT	TATTCCAAC	TCTTGCCGAA	AGGTAACAAA	60
	CCGTTTATTT	ACATGAGTTT	ACACATAACA	CCGGAGAATG	TTGATGTTAA	TGTGCATCCT	120
	ACAAAGCGTG	AAGTACGATT	TTTGTATGAA	GAAGAGCTAA	TAGAGCGCAT	TGGTAATTTG	180
	CTCCATGAGC	GGTTATCTCA	GCTGGATACT	TCGCGAACTT	TTAAACCGGG	CTCTTTTGACA	240
35	CTTGGGAAAC	ATAGTTCAAC	TGTGTCTCTC	GCATTCCGGC	AATCAGCGAC	CCCCGCAAGT	300
	ACACAACCAA	AGGCAAAACG	TGCAGAAAAC	ATGCTTGTCA	GGACTGATGG	TAGCCAAGCT	360
	AAAATTACTA	ATTATGTCAG	AGCAAGTCAA	AGCTCTACCA	GCTCATCCTT	TTCCACTTCT	420
	TTAAGAAAGA	AATCACATGC	GGCAGCAAGT	GATGAACTTG	GCAGCATTGG	CGAGGACTCC	480
	CAAGATACAG	CAACATCGAT	GACAACCTCT	ACACAAGAGC	CTAATCATAC	CAAGTCTAGA	540
	GCCATTTTAA	CCTTATTGAA	TAATGAGTAT	GAAGTCGTAC	AGCGGGAAAG	AACGGGAAGT	600
	AATCTCACCA	GCATCAAAAC	TCTAAAGCAG	GAAGTAGACG	AAGATATGCA	TAAGGGAATT	660
40	AACAAGTGTC	TTTGCAGATA	TGACCTATGT	TGGTGTGCTT	GATGCAACAA	GGCGACTTGC	720
	ATCTATACAG	CATGGTTTAA	AGTTATTT				

1480UP

	GATCGCGTCA	TGGGATACAT	AAACCACGGA	ATCAATGAAA	AGCTCGCTTA	CGAACAGTTT	60
	GGATCTGTAC	CGGAGAAGGG	CTACTATATT	CCTCCACAAA	TATTTCTGGA	CGTTCTCTCAG	120
	AGCTCGAGAT	TCTGCCGTGA	AGAGATATTC	GGCCCTGTGG	CCGTAGTTGC	GAAATTCAG	180
	GACTACGATG	AAGCTATTCTG	TTACGCTAAT	GACACTAAT	ATGGGCTGGC	ATCCTGCGTT	240
	TTCCTGAAA	ACATACGCGT	TGCGCACCGC	TTTGTCCGTG	ATGTCCAATC	TGGCACTGTG	300
50	TGGGTTAATT	CCTCTAATGA	TGAGGAGGTG	GGAGTGCTT	TTGGCGGGTT	CAAGATGAGC	360
	GGTATCGGAA	GGGAGCTGGG	GAAGGCAGGC	CTGCAAACCT	ACCTCCAGAC	TAAAGCAGTA	420
	CACCTGAACT	TTGCTTAGAT	AGAGCAACTC	ATATATTAGA	ATCACTTCAT	ACATCAACTA	480
	TATATCATTA	TGTATATGAC	TATGCCAGAG	GTGTAGTGGA	ACCACTATTT	ATCACGTGAT	540
	AGGCGTTGCG	CGGTCAATCC	GCCAGTACCT	GCGTTGCAGA	ACGCGGGCGA	CACATTCAGC	600
	AGGTGCTATA	TACAGTTGTC	GAGGACAGTA	TGGCACGCGA	TACCATTTATA	GCAAGTAAGC	660
55	CGTGTGCTGT	TTGCATAAAG	CGTAAGGTCA	AGTCCGACCG	GCTGGTTCCC	TGCACGAACT	720

GTGTCAA

1482RP

	GATCCATTG	TTAATATGGA	TTGTCTACAG	TGAGAGCAAA	GAGGGCGGGG	GATTTAAAGC	60
	ATGGTGGGGC	GACGCCTATT	TTAAATGGGG	GTTGTTTGCA	ACGGTTTTGG	CCGGGCTTCT	120
5	TGTCCTGCAT	AGTGAAAAGT	TCATTGCGCA	AAGAACGTAC	GAATTCTTTC	TGATACTGCA	180
	CAAGCTCTTC	AACATTGTCT	TTATTGTATG	CATGTATATG	CACATCAAAA	CGCTGGGATG	240
	GCACGGCTGG	GTCTGGTCTGA	TGGTTGCCAT	CTACTGCTTC	GAGCGTGTGG	CCCGGATAGC	300
	TCGCATTGTA	CTTGCTGGAG	GCATCAAGAA	GGCCACATTA	ACAGATGTTG	GGGATCGCGT	360
	GCTCAAGATG	ACAGTGGAGA	AGCCAAAGCA	TTTCAAATAT	TACCCGGGGG	CTTATGTTTT	420
	CGTTTTATTTT	ATTAGTGGGA	AGGATGCTTG	GTTCTATCCA	TTCCAGTCGC	ACCCGTTTAC	480
10	CGTCCTTAAT	ACACCCAAGA	TCGATGGCGA	CAACCTGGTG	ATTTATTTCA	AAAGTGCACAA	540
	GGGCGTGACG	CAGCAGCTGC	TAAACAGGAT	CTTTCTATCC	GGGAAAGAGT	CCATCGAATA	600
	CAAGGTGCTT	CTAGAAAGGC	CCTATGGAAA	CACCATTCGG	CGGCTTGCTG	CTCCTGACCG	660
	GCGCTACGTG	GGCGCCAGCG	CAGGTCCTTG	CGTA			

1482UP

	GATCGCGCGG	TTGGGCGCGG	TGGCGCCAAA	GCTGAACCGG	TCCGCGCCGA	AGGATGCGAT	60
	GTGGCGGCTG	CGGAATTACT	CGATGAAGTG	CAATGAGGCC	AACGATGTGT	ATCTGCTGCT	120
	GAACGGGTCC	AGCCACGTAG	CCTGCGACGT	GAGCGACACA	CTTCTCGATT	GGTTGGCCAG	180
20	CACCGAGGAT	GAGCCGGTGA	TGGAGCTGGT	GCTGCGAGAG	TGGCTCGACG	TGAACCCGGC	240
	GCTGGAGTTC	CGCGTGTTTG	TACGAGGTGG	GGAGGTCTTG	GGCGCGTGCC	AGCGGGACCT	300
	GAACTACTAT	GACTACCTGA	AGCCGCTGGA	GGAGAAGCTG	AGGACGGCCA	TTGAAGACTT	360
	CGTGACGAC	GTGATGCTGC	AGCGGCTCCC	GGACGACACC	TTTGTTGCGG	ACGTGTACAT	420
	CCCGCGGCCG	TTACAAAAGG	TCTGGCTGAT	CGACGTGAAC	CCGTTTGCGC	GGGAGACGGA	480
	CCCGCTGCTG	TTTTCATGGA	ACGAGCTGTG	CACCTGAAGC	CCAACGCCGA	AGGGCACCGG	540
	AGCTGCGCCT	GGTTGCGGAA	AACTACATCG	GTCGCTTCGC	GGAAAACAAC	ATCGGTGCTC	600
25	TCGCAGCGAA	AGGAGCACTC	GGAACACCAG	GTACCTCTGG	ACGTGGTCTGA	GGCAGGGCTC	660
	AATCCGCAAA	GCATGCAGAA	GCTGGTTGAG	A			

1483RP

	GATCCAAAAA	ACCTCTWAAG	GTACAGTCTC	TAATTGCTTC	CATSTCTTTT	TGAACATACA	60
5	TGGACCATGC	ATCCTCGTTC	TTGTTACGGA	CAGAATCCTG	YAATGCAGCA	ATGGCACTTG	120
	GCTCGTTGAC	GTGCTTATAA	CCACCATCCC	TCCAATGGTA	TTCCGCCGCT	TCAGGCAAGT	180
	TGACAGATCT	CTTAATCKTA	AACCTCGATG	GATAMCCGCG	CTCGTGCAAT	GAAAAGGCGT	240
	CTTGSGCAAT	GTATTCAAAG	GTAACACCCCT	TAATTCTAGA	AGCGGTTCGG	GCAAAACACA	300
	AATCAATCAC	TGAGTTATCA	ATACCTAAAG	CTTCAAATAT	CTGCGCTCCC	TTGTAAGATG	360
	CCAGAGTAGA	GATACCCATC	TTGACATGA	CTTTTAGTAT	ACCGCCGTCA	ATTGCTTCCT	420
10	TGTAATTATG	CAACAGTTGC	TCATCTGTAA	TATCAGAGTA	GTATCGTTA	ACATTCCGAA	480
	CTAAACCTTC	GTTATTCAAT	CTGACCAGGG	TTTCCATCGC	TAAGTAAGGG	AAAATACCGT	540
	CACACCCATA	GCCAAGAAGA	ACACAGAACT	GGTGAACCTC	G		

1483UP

	GATCATCAGC	CCCGCTGCTC	CGCCGCAGTA	ACGGCTCCAC	GTCGTAGTCT	GGCGTCCCTG	60
15	CTAGTCCGTG	GCTCATCGAG	AGGTCTCTTT	CCTCAGGCTC	GGAGTTGGCC	ACGGAGGCAC	120
	TTGAAAGACT	CTGTCTTCGA	TTCAATCCCC	CCGCCCCGTA	TTCCCTCGCCC	TCGTGGCGTG	180
	GCTTGGTGAG	GCCCTCCCGC	TGCAGATCTT	CAACGTCATC	CTTCAGCTCC	TGGAAGTTGG	240
20	CAAGAATTCC	GGTTTCCTGA	GAGACATAGA	ATTTGTCAAT	TCGCCTCAGC	TCCTTATCCA	300
	CGCCCGCAAT	GAATCTTTTC	ATGTAGCTCT	GTGCAAGCGG	CACCCGCTCG	GGGTCTCTGT	360
	CAAACGTCTC	ATGCTGGTAC	AGCTTGTCTT	TCTGCAGTGT	GTACACGAGC	TTCTTCAACT	420
	GCGAGTACGC	GATATACTTC	GACGAACACT	CAGGGACCGC	GTTGAATTGC	AGCGAATGTG	480
	AGAACTTCAT	CTTGGCTTCT	ATCGCCTAAC	GGCCCTGGTC	CGTCGCGATA	CAGGTCTGTC	540
	TCATTGAAAG	TACGCAGCGC	AGGCATAGGT	TTAATTCCAG	GCTCCCAGGA	GATTTTCGTG	600
25	CAAGAGGACG	TTTTAATTCT	CATTATATCA	CGTGCCCTGG	CTATATTTAT	AAAGTTGCCT	660
	CTAACGGG						

1484RP

30	GATCCTCTTC	TATAACTCAA	TTAACAATGT	TTCTCTCTGT	GGAGTCGTTT	CTGCATCTTC	60
	CGTAACCCCT	TCATTCTGAG	GTGTAGCCAT	TTTTATCTTC	TGCGCTGGAA	CACTCGGGAA	120
	TTCAAATTGA	GTTATTGGCA	CCTGTGCCTC	CTTCTCCTTG	TCCGGTATAC	TTTCTTCAGG	180
	AGGATAAAGA	GGCTCCGATG	GTGATGATAG	CAGTGTCTTC	TTAATATCCG	GTTCTGAGAC	240
	CTGCGGCTCA	AAGCCAGTTA	CTGATTGCGA	CTGGCGATTTC	TCCATCGGCG	AACTTTGTGT	300
	GGTATGTAGG	ATTGCTGGAG	TGAGTTCTGC	AGCGTTGGAA	GAGCTCCTGG	CATAGCTACG	360
35	ATATGTTGGC	TCAGGTTGCG	TCTTCTCGTA	CGGAACAGTG	TTGGCTGGAG	AGGACTCTGG	420
	TTGTCCGTGC	ATTTGATAAG	TGTATGGATC	AGAAGGTAAG	TGTGGCATGG	AATATTGTTG	480
	CGAAAGATTA	ATATTCTCTA	ATTGTCTCTC	TAACATGGTG	TCATAAATGC	TCATTATATC	540
	CGAAATTTTG	GCATTCAATG	CTACCAAGGT	ATTATATTTG	TGAAACGTAT	CGTTAAGGGA	600
	ATGGTTTAAAC	CGAGGCCGAG	TTCCAAGGAC	CTTCTGGTAT	AGCATCTGCA	GCTGTGTATC	660
40	CTCTAACACG	GCATTCAATTG	GCTGACCCTT	CCTCTTCTCT	CACTAGG		

1484UP

45	GATCTCGGAG	AACGTGCTAC	AACACTCGTG	CCGGGTCAAG	CCGGACCCGA	AGCTGATCGA	60
	CCAGCAGCCG	GAGATGAACC	CCCAGCACAC	GCGGACTGCG	ATCGTGAACT	TTGCGTTTCA	120
	GCTGGCGCAG	AAGACGCGGG	TGACGAACGG	GATCTTTTTC	CACGCGGTGC	GGTTGTACGA	180
	CCGTTACTGC	TGGAAGCGCG	TGGTGCTACG	GGACCAGGCG	AAGCTGGTGA	TTGCGACCTG	240
	CCGTGTGGCTG	GCGGCGAAAA	CGTGGGGGGG	GTGCAACCAC	ATCATCAACA	ACGTGACGGT	300
	GCCTACGGGT	GGGCGCTTCT	ACGGGCCCAA	CCCGCGGGCG	CGCATCCCGC	GTCTGTCCGA	360
	GCTGGTGCAC	TACTGCGGGG	GGTGAACGCT	GTTTGACGAG	TCGATGTTCA	CGCAGATGGA	420
50	GCGCCACATC	CTGGACACGC	TGAGCTGGGA	CGTGTACGAG	CCGATGGTGA	ACGACTACGT	480
	GCTCAACGTG	GACGAGAACT	GTTTGATACA	GTACGAGCTA	TACAAAAGGC	AGCTGGAGCA	540
	CAATCGGCAG	TACGCCAACA	AGCGCAACTC	GCAGGACAGC	AACGCGACCG	AGGAGGACGT	600
	GTCCGAGGAG	GACGAGGACC	TGGATAACAA	GATCCAGTTA	ATCAACATCA	AGAAGTTTCT	660
	GATAGACCTG	GCCGTCTGGC	AGTACGACCT	CTTGAAGTAT	GAGGTATTCC	GAGCTA	

55

1485RP

	GATCCCCGCG	TTATTAGCAC	GGTGCCTTAA	CCAAGTGGGC	CAAGGAACCA	ATTACACTTA	60
5	AGATGCTATT	TGCAGATATT	TGTAGTCCAC	TCAAAGTCAAC	ACGGGCATAT	TTTACTTTCT	120
	AATTCTTAAA	TTCTTAACTC	TAAGCCAATC	TAAGTAGTTT	ATCCTATCAT	CACTTGATCC	180
	TTGCGTTTGT	TTGGTCTATA	ACCTTTAATT	GGGTAGTGCT	TATGGAAATA	TATATAATGA	240
	GATATTACAT	GGGTCCCAT	TAACTTCCGT	ATGAGAGTTT	GGCCGAGTGG	TTTAAGGCGT	300
	CAGATTTAGG	TTATTCTCCT	AAAATCTCTG	ATATCTACGG	ATTCGCGGGT	TCGAATCCCG	360
	TAGCTCTCAT	TATTTTGTGT	ATATTGTCTT	TCTCAGGCAT	GTGACATTTT	GCATCATAAT	420
10	CATACCGAAG	ATATGGCTCC	CACCGTGACC	TGATACATTC	TCGCATCTGA	AGGCATGCAA	480
	TTTAATGCAA	CTGTGGCTGC	AGATGCTCTA	GGTAGGAACT	AGCACAACAT	CTAACAACTA	540
	GCTGCCATA	TACAGCGCAA	TGACAGCGTC	TGAGTCGTTG	TGGCACCAGT	CATAAGCCAA	600
	TTCTGATTGT	CTGAAGACAG	GCTATGAGTC	TCCCACAGTC	CTCCTTGCTG	TCCCATACGC	660
	ATATAAATAC	CCTTAAAACT	CAATTAGCCG	GTATTTTATT	TGAGCTGCAG	AAGGTATCTT	720
	AACTCAGGTA	TAATATACTG	TAATGGGG				

1485UP

	GATCGGAGGT	AGTGTTTTCG	GTGGGCACGG	AGCTGTAGCA	CGCGGGGTCC	AAGAGCGGCA	60
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	CTTCGGTGCG	GAGCCCATAT	TCCTTCGGGT	CGCGGAAAAT	GGTTGCCAAG	TACTCGAGCT	180
	CCTGCGAGAC	CTTCTTGAT	TCTAGCTCGC	GGTTCAAGCA	GACGATGGCG	TTGCGCTGAA	240
	GGATCGTGAG	CTCGTCGAGC	ACGTCAACGA	GGTCGTGCGA	TTGTGGCACC	GCGCTCAGCG	300
	CGCCGTCGAT	CGCCTTAAAC	AAGGCGCGCC	GGGCCTTCAG	GGCCTGTCCA	CTAAAGAGAT	360
	CAC TGCGCTC	GAAAATGCTG	ATTGCCTCGC	GCATGTACGG	CACAAGCTGG	CGCGACACGA	420
	ACAGATAGCT	CATGTGCGGG	GAGTTCGACG	TCACGCTAAC	TGCCGAGTGC	TTGGTTGAGT	480
25	GGCTGAAGGG	CCTACTGCCC	CGGTAGGGCG	ACCCGAGAAA	TGCGTCATCA	CCTCGTCTTC	540
	ATCTGGCTTG	AGATACAAAT	CCGAAAGCGG	CACGTTGCCT	GTCATCGCAG	AGTTGTTTGA	600
	CAAGAGCAGC	TCGTCTAGTC	GCTGCTGGAG	CTGGCCCACT	TTGCTTTTGA	GTAGTTCCAC	660
	TTCACTGCCC	TTTTCGGATA	GCATGAGCTG	CAAGTGGCAG	TTCTCGTTTT	GCAACGCCAG	720
	CACCTCATCG	GGCGCGGTAC	CGCTGCTCTT	GCAGA			

1486RP

	GATCCTTCTT	GTACATTTCT	GATTTTAAAC	ATGTCTTCAT	AGCGTATATT	TTACCGGTAT	60
35	CTTCTTCTTG	CACCAGACGG	ACCTCACCGA	ATGCACCCTT	TCCTATGACT	TTAACAGTGT	120
	GGAAATCTTC	CAGGGATAGC	CGTGTCCTAC	GCAAGCGCAG	AAACTGCGAC	TCCTTTTTTAC	180
	CCAGTGAAGA	AAGCTGTCTG	TTCTTTCTCT	CTTCAGACCA	GCCATGAGAT	AATAGCTGGG	240
	ATTCAAGTTT	CACGCGTCTT	TGGTTGCGCT	CAATGGCATG	ATTGACAGAT	GATTGGTAGA	300
	AATTCTCGAC	TTTCAGCTTC	ACTGCAGCCG	CTTTTCTTTG	TGTGGATTTG	CTCAGTAGCT	360
	CTGGACGCTT	CTCGAAGTAC	ATATAGTTCC	CCACTCCCAG	GGTTTGCCGT	TGGCCCCCAT	420
	TGGGCGATTG	TGGAAC TGAA	GAGCACTGCA	GGGACTGACG	GGATAGCATA	GCGCCCTGCG	480
40	AGCTCTGGTT	TCCCCTAGC	GTCTGATCGC	CAAGGCTTCC	GTCTAGTAGT	CCAGGTAGAG	540
	CTGCAGGCTG	TAAAGGGGAC	TCCGACCCCC	CAAAGTGTTC	ATACGCAGAG	GAAGCAGGCT	600
	GCTGCCCCACT	GTAGTCCGAG	CTGTGAGGAG	AGTGTCTCTG	TGAAGAATGG	CCGGGGGCAA	660
	GAGTAGTGTC	GTTACAGTTC	CGTAAAAGAG	TTGTTGTTCT	GGCTGTAAAT	GCTGGTCCGC	720
	GTAGGCGGG						

1486UP

	GATCAAAACA	GCATGTCTAA	GTCTGTTGCG	CGCTGCCCGC	AGTGCCACAC	GGAAGTGGCT	60
50	AAGTGCCCTCA	TACAGCAGAA	CTACAGCATC	GTGATTTGCC	CGAACGAGCA	GTGCATGTAT	120
	CCGTTCAATG	AGGCCGAGGT	GATCCAGCAC	CTGGTGACAG	CAAGTGACAA	GGAAATCTCTG	180
	GAGGCTGCAA	AGGTGCGGCT	GAAAAACGAT	AATATCACAG	GCAGCGGAGG	CGCGCTCATG	240
	GAATAAGGAA	CCAACCGTGT	GCTATATACG	TGTACTGTCT	ATGTTAAGTA	GGTCTCGTGC	300
	GCCGCGAGCC	CTGCGTGGCT	AAAGCTTTAG	ATTGGAGTTG	TACATGATGT	CGCCATCGAC	360
	GCTGATGCTG	ACACTGAACT	CAAGGTCTTC	GTGCGTGGAT	ATGTCCACAG	TTTTATATAT	420
	CATCATCAAC	GCGAACACAT	TGCAAAATGCT	GCCGATGAAC	AACCCGTCGA	GGTAGTGCTT	480
55	GACGCCCTCG	CAGATCTCGT	ACGAGATGGT	ATACATCAAC	ACCTGCCCAG	TAGTTATAAA	540
	AATGACACCC	AAAATGGTGC	ACCTGTCTAT	CCAGAAGTTG	GAGAGCACGA	AGATGGAGAC	600

CACGAGCTGG CACACCGAGT ACATTAGGAA CGCGAGGCCA TTGAGGCCGT ACATTACAAC
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660

1487RP

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 AGACTTGGGG TCCATCGTGC AGCAGCAGAG CGAGCTGGTA GACCACATAG AAAACAACAT 180
 10 ATACACTGCG GTAACCAGCA CGAACCATGC ATCTAACGAA CTGTGCGCGC CACTGAGATA 240
 CCAGCGGCGT TCCAACAGGT GGTGCCTATA TCTGCTTCTC GCTCTGCTGG CATGTGCTCTT 300
 CCTGATCGGG GTGACAGTGC TTTAGAACAT CTCAACTAGT CTACTATGTA ACGCTTTAAT 360
 ATACTACTGG CTGACCTACT CCTCCCGCAG TTCCACACAG TTCACGCAGC CGTCATCGCC 420
 GCCGGTCACC AAAAGAACGC GCCCGTCTAA CGCCAGCCAT TTCACCACAT TGATCTCGTA 480
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 15 GTATACCGCC AACACACCAT CCGAGCCAAAC GCTCGCGATA AGCCCGTCCG CGCTCCAAC 600
 TACGCTGTAC ACAGCCCGCG TATGCACGGC CGGCAGGACC GTCTCTTGA TCCACTCTTT 660
 GTCGAAGACG TCGGCGTCGT CAGTGAGGCA CCGCCAGATG CGC

1487UP

GATCCCAATA CTGGGACTTT ACTAATACCA GCCATGCGGG CAGCTCTGCA GCAGCTGGTA 60
 ATGACAAGGA GGACAAGAAG AACAAATACT GGAACGCAGA CGCCGAGTAT CTGATCGAAG 120
 AGGTGAAGAA AAACAAAAAG AGTGTAGTAA ACTACCTTGA ATCGAAGACG AACGACGAAA 180
 TGACCCGCAA GGGTCTGATC CGGAACCTGC AACGATTGCG AAAGACAATT CTAATGAAGG 240
 25 AAGGGTTTGA AACCTGGAG GATATCGTCA CGCTTTCTCA TTTGGAAAAT AGACTGCTGG 300
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 ATGGAGAATA CAAGGTTGGC ACAATAGCTA ACGAGAAGCG GGAGGAACTG CTGAAGCAGA 480
 TATTGGTTGC ATGTGCTGAT ATCCGGCAGG TCCAAAGAGT GACAACCAGT TACGCATCTG 540
 CTCTTGGTCT TCTTGATGTA TCTTTATAAT TATTGCTAGT CTATAGACAA AGTTGGGAAT 600
 30 CTGAATATAA CT

1488RP

GATCAACAAA TGATTTTCCT ATTTTCCGCG CACCGATCAA CGAGATATCA TAGGAATCAA 60
 35 TGTTGCAGGC AAATCCCTCA CCGAGTATGA AGCTCTGGTA TGCTGTTGGC GTTGTTCCTT 120
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 TGTCTGAAT GTACTGTAG AACGTCATTA CGGCTTTCAA GAAGTGCCCC TGGAGGTAGT 300
 CTTGAATATT TCTACCATTA ATTACACATT TAGGGGCAAA TAACTTGCCG CTAATAAAGA 360
 40 GAGTGAACAT AGTCTGGCAG GCTAGGCGGT AATAGTTTGT GGACCAAATC ATTTCTGGAT 420
 ACTGTGCTTT TTCCGCTGC GTCTCTGAAT CGATATAGTA GTTGTGCAAT ATGGCAGCCT 480
 CAGTAGCTAG GAACCTCTTC GGCTGAAAGC CTGCGCAATG CAACGTCCAT AATGGCGCTC 540
 CTGATCCCC AGAAAAGCGA GACCACAGT CCTGGTGGGG GTCTAGGTAT ACGTACATGC 600
 CGCCCGCCTC CTTGATCTTT TTAAGCACCA TCACCGTGTA CTTATGTAT TCCTCATCGT 660
 ATATCCCTGG GCCGCCATGC TCCAAGGCCT CCCAGGTGAA CAAATAACGG ATACA

1488UP

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 50 AAACCAGCTG AAGCGGTCTA TGGGCGATGT CTTCCGGTTG GTGCCCTTTT CTGCCCTTCT 120
 GATTATTCCG TTTGCAGAGT TGTGTCTGCC CTTGCGGCTT AAGCTTTTCC CCAACATGCT 180
 GCCATCCACA TATGTTTCTG GGACGGAGAG ACAACAGAAG AGAGTTAAGC TAGAGGAGGT 240
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 55 GAAGTATATG TCTTTCGGC CTTTTCGCAC TGACAACATG CTTAGGTACC AAATCCGTTA 540
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1489RP

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	GGAGAGTCAC	AGGGACCCAA	TTACCGGTGA	GAGTACATTG	GTTGGTTTTT	CCTACGTTGT	120
5	TCCGGGCGGT	CGTTTTAAATG	AACPTTACGG	CTGGGACTCA	TACCTAATGG	CTTTGGGTCT	180
	TCTAGACTGT	AACAAAGTGG	ACATAGCACG	TGGGATGGTT	GAGCATTTC	TCCTTGAGAT	240
	AGAGCATTAC	GGTAAAATAT	TGAACCCAA	TAGGAGCTAC	TACCTCTGTC	GGTCACAACC	300
	CCCCTTCCTA	ACCGACATGG	CTTTGAAGGT	CTTCGAAAAG	TTCCGGTGGTG	ACCAAAATCC	360
	TACCGCTGTG	GATTTCTTGA	AAAGAGCATT	CATCGCAGCC	ATTAAGGAAT	ACAAGAGTGT	420
	ATGGATGGCA	GAACCGCGGT	ACGACAAAAC	CACGGGTCTT	TCATGTTATC	ATCCAGATGG	480
10	TATCGGTTTT	CCACCAGAAA	CCGAGCCTGA	CCACTTTGAC	GCAATTTGCC	GGAAATTTGC	540
	GGAAAAGCAC	AATGTAACGA	TTCCGGAGTT	CAGGTGCATG	TACGATGCCG	GCGAAGTACA	600
	CGAGCCCCGA	CTAGATGAGT	TCTTTTTCGA	TGATCGTGCT	GTACGTGAGA	GTGGACATGA	660
	CACCTCTTAC	CGTCTAGAGA	ACGCTCTGTG	TTACTTAGCG	ACGATTGATT	TGAATCGTTA	720
	CTATACAA						

1489UP

	GATCGTAACA	TTGCCCAATA	GCTTGTTTTAG	CTCGTCATCG	TTTCTGATGG	CTAGCTGTAG	60
	ATGTCTTGGG	ATGATTCTGG	TCTTCTTGTT	GTCTCTGGCG	GCGTTACCGG	CCAACCTCTAG	120
20	GATTTCTGGCG	GCCAAGTATT	CTAGCACAGC	GGTTAGGTAC	ACAGGCGCGC	CCGACCCGAT	180
	TCTCTGTGCG	TAGTTGCCCT	TTCTGAGCAA	TCTGTGGACT	CTACCGACAG	GGAAAGTCAA	240
	ACCGGCCTTA	GCCGATCTCG	ACTGCGAAGC	CTTGGCGGCA	GAACCAGCTT	TACCTCCCTT	300
	ACCAGACATT	ATTTGTGTTG	TGTGTGTGTG	TGTGTGTTTA	GTGTGAACTG	CGTGTGCTAT	360
	GAGAAAACAC	TACGCTGAAA	CTGCTAAATA	ATCCAGACAG	GTCCCCCAC	CGCAAAGGAT	420
	CCACGCTATA	CTTCTCTCTA	CATATTTATA	CTTGTCCTTT	TGCCTTCTAA	TECTCGATCG	480
25	TACGCGTCTG	ACGCTTCAAC	AGACCTTCAC	TAGACGCTCG	ACCTGTGCGG	GCTGGTTTTT	540
	TCGCATGACA	TGTCCGTGCT	GGTTTTTTCG	CGCTGAAAAG	GAAAGCGCGT	GGCTCCGAGC	600
	ACCAGAGCCG	TACTAGCTCT	TTCCGCGTTC	TGTCCTATGT	GCACGCGAAA	TTTCATACTG	660
	TAGAGTGTGC	CATCAGCTTC	ACAGAGTACA	ACGGTAGG			

1490RP

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	CTGAGCCGCA	TCCAAACGTA	CGGGTTCGCG	GGAGAGGCAC	TTGCCAGCAT	TTCTCACATT	120
	GCGCGACTAC	ATGTGGTGAC	GAAAACGAAA	GAGAATCAGT	GTGCATGGAA	GGCTGTCTAC	180
35	GAGAAATGGG	TAATGGTGGG	GGAGCCGAAG	CCGACGGCAG	GCAAGGATGG	GACGACAATC	240
	CTCGTACAGG	ACCTCTTCTA	CAATGTGCCG	TCCAGGCTGC	GGGCGCTGCG	ATCTCCAAGC	300
	GAAGAGTTTG	CGAAAATAGT	GGATGTGGTC	GGCAAGTACG	CAATCCATT	GGATGGTGTG	360
	GGATTTTCGT	GTAAGAAGTT	TGGCGAAAAC	CAGTACGCGT	TAAATGTACG	TGGGACTTCT	420
	TCAAAATCAG	ACAAGATACG	GGCTGTATTT	GGTGCTCCAG	TCGTTGCCAA	TTTAGTTGAG	480
	GTAGATATTT	CTGCAGACCC	TGAGCACGGT	CTTACATCCA	GTTCCGGCCA	GATTACAAC	540
	CCAGACTTTA	ACAACAAGAA	GTCTATACCT	GCTGTGTTTT	TCATTAATAA	CCGCCCTGTT	600
40	TCCTGTGATC	CTCTGAGGCG	AGCCCTATCC	CAAGTTTATC	CAACTTCTTG	CCGAAAGGTA	660
	ACAAACCGTT	TATTTACATG	AGTTTACACA	TAACACCGGA	GAATGTTGAT	GTTAATGTGC	720
	ATCCTAC						

1490UP

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	ATTTCTGGAC	GTTCCTCAGA	GCTCGAGACT	CTGCCGTGAA	GAGATATTTC	GCCCTGTGGC	180
	CGTAGTTGCG	AAATTCAAGG	ACTACGATGA	AGCTATTCTG	TACGCTAATG	ACACTAACTA	240
50	TGGGCTGGCA	TCCTGCGTTT	TCACTGAAAA	CATACGCGTT	GCGCACCGCT	TTGTCCGTA	300
	TGTCCAATCT	GGCACTGTGT	GGGTTAATTC	CTCTAATGAT	GAGGAAGTGG	GAGTGCCCTT	360
	TGGCGGGTTC	AAGATGAGCG	GTATCGGAAG	GGAGCTGGGG	AAGGCAGGCC	TGCAAACTTA	420
	CCTCCAGACT	AAAGCAGTAC	ACCTGAACTT	TGCTTAGATA	GAGCAACTCA	TATATTAGAA	480
	TCACTTCATA	CATCAACTAT	ATATCATTAT	GTATATGACT	ATGCCAGAGG	TGTAGTGGA	540
	CCACTATTTA	TCACGTGATA	GGCGTTGCGC	GGTCATCCCG	CCAGTACCTG	CGTTGCAGAA	600
55	CGCGGGCGAC	ACATTCAGCA	GGTGCTATAT	ACAGTTGTGC	AGGACAGTAT	GGCACGCACT	660

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CTGGTTCC

1491RP

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1491UP

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1492RP

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TTACGTCTTC TATATACCCG GCTCGTCCGT CCGCAGATGC CTAGATCTGA ATCTTCGCCA 480
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CACAGAACTG

1492UP

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AGCTCTTGCT GGTACTGCTG CATCAACTGC TCGTCCCCCT GCACCTCTGG AGGCGCCTAG 540
GCAGGCGAGC CAC

1493RP

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5	ACAATTCATA	CTGTTGGGCG	GGCCGCGAAG	AGTTACCAGT	GTATTCTGCC	AACGCTGCGA	180
	CGCTTCGGCA	ACTAGATTTC	AGTGCCTTCT	GGAGCTCTGA	AACATTATCT	AGGATGTTGA	240
	ACGGATCGAA	AGCGGTGTTC	CGGGGCATAG	CGGACATGGC	AGTTCTCAGA	TTCTGCATAG	300
	AACCGGCATA	TAGAGCCAGT	GCCTCCTGAT	GCTTGCCTTC	CTCTTGGTAA	AGGGGAGCGA	360
	GCCCGCGGCC	TACAAGCTGC	GCACGGTAAA	ACACCTTGAC	AAGCTTCAGA	TATGCAGTGA	420
	GCTCATCGTC	TGAGTAGACA	CCGGGTAGAC	CCATAGCCTC	CTCTGCATGG	GTGATTATGT	480
10	TGTTGATGAC	GTGGTTCAGC	TGCTTGTACT	TCGTGAAGCG	AGCGGTCTCT	CGGCCTTCTT	540
	GCCATTTCGAC	CCACAGAGGT	TGCAACAGCG	CAACATCGCG	GCCCATCGTC	GCGCACAAAGT	600
	AGTTGAATTG	GAGGTATGTG	AGCAATATCT	GGTCGTCTCT	TCCCTCATAG	TGCACACCTT	660
	CCTCCTGTCT	GCGCTCCATT	GACTGCCTCT	GGGCATCAAT	TGCCGCGTTC	CACCTTCAGT	

1493UP

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	CGTCGCCATC	TGGAGCCAGC	GCTCCCGGAA	GCCAATTAGG	TACCCCTAGAC	CAAGCCCGAT	120
	TAGGTGGCCG	ACAAAGCTGG	AGCCGGGCAT	TAGCAGCGTG	ACAAGTACCA	GGAAACACCAG	180
20	CGGGATATAT	AGGGTCCGCA	TCTTCAGACT	TGCGAGCTCG	TAGTGGGGGC	GGAAAGCCCGC	240
	CTCCTGCACT	GCGAAGTAGC	CACACAGCGT	AAAGCACCAC	CCGCTCGCCC	CGCCTACGTA	300
	AACGTTTGGG	TACAACAACA	TGCCAACTAA	CGCAGTACAG	ACGCCCGTCA	CAATGGCCAG	360
	GAGGTTGAGC	TGGAATCCCG	TAAACACCGT	CCCGTTGAGC	GCTTCGAACA	TGCACAGCGG	420
	CACAAACAGC	GACATCAGAT	TCAACAGCAA	ATGGAAGATT	GACAGGTGCG	CCAGTGGATA	480
	GAGGGAGAGC	CGCGTCAGCT	GCAGCTTCCT	AAGCGCCCCC	GGATCCAACA	GGATCTTCTC	540
25	GTTGATTGGG	AACACCCAAT	TCAGCACATA	CACAAGCGTA	AGGGAACACC	GACAAGCCCTG	600
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	TCAATCAAAG	TGGCAGTTTG	CTTGGGCGTG	GCAGTGGACT	ATGCCTCGCC	AGTTGCCCAT	720
	CAAAAC						

1494RP

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	TTCTGTCCGG	TTGGATTCTG	CCTTCCCTTAT	AGTCCTGAAT	CATGCGCGCA	AAAGCGCGCG	120
	GCGTCCAGTC	ATGACGGGAT	CGGCCCTTAT	AGGACTTCCC	TGCAAGCCGC	ATGAGGCTCC	180
	GCCAGCCATT	TTCTTCAATA	ATATTGACAA	GTCTTTCGTT	TTCCAACACG	ACCTTGTTTCG	240
35	CGAGACTGTG	GAACGTGTTT	ACGTCTATCT	GCTCAAGTAT	TTCTACCCTT	TCCTCAGCAG	300
	ACCATCGCAA	GTGCAATCT	GCCTCTTGGA	ATGTCTCCAT	AAGCTTTTCA	TTGATGTTAT	360
	CCACTGCTTT	ATTTGTCAAG	GAGAGGATTA	GTATTTTCATT	AGGAGCTACA	ATCCCTTCGT	420
	AAACCAGGTT	GTAGACTTTA	TGCAGTAGTG	TCACGGTCTT	GCCAGACCCA	GGTCCCGCTA	480
	CCACATGAC	AGTTGTACAA	GGCTCATATG	GATGTGTTAC	TACTCGTGAT	TGGGACGTCG	540
	TCAGTGCTTT	CATTTCATGTA	TGATACATGC	TCGAGCGTCG	GCGAAGGAAA	TAAATTCGTG	600
40	AATTTCCGTT	TTAAGATACT	CAAAAGAGAT	GAGATAACCG	CCCGCAAGGC	GGAGTAGAAT	660
	TACAGCAGCT	ATTGAATATA	TTTAGTTTAT	TTATCTGGCT	AGCTTAACCA	CTAGTGT	

1494UP

	GATCCTTTAG	GCCATCCTCT	CCAAATTACC	CGTGCTTGCC	TTCACTAGCT	CAGTCGGAAG	60
	AGCGTCAGTC	TCATAATCTG	AAGGTCGAGA	GTTGGAACCT	CCCCTGGAGC	AAGTTTTTTG	120
	CTCCGGGAAA	TAAGTATTTG	GAGCTGGACT	GAAGCGCCAA	CCTATGCAGC	TTTGCTGGTG	180
	CGAAGTGTTT	ATTTCATGCT	GCGGACTATG	TCTATATATC	TTGCGCGTCT	TGTTCTTCTG	240
	CTGGCGAAGA	GGAAATTGGAT	TCTTGGGCGT	GGTCTGCAAG	CTCTGCTAGC	TTCTGGGCGG	300
50	CGAGAACACT	TTCAAACGCC	TCTTTCCAGT	CATGGTTGTC	AAAGTATCTG	AGCATGATCT	360
	GGATAACGTG	GGTGGTGGTC	AGCACCTTCC	TGCCGCATAG	CTTGATGTAC	TCTCCTATTG	420
	GTAGGCGACG	AGTAGGAATG	CCCAGTTCTT	TGGCCTTATT	GTAACAGAGA	GCTTTGTGGC	480
	GGTTCCTTGT	CACAATGCCG	CCCACTATAT	ACGTCGTACC	GGGTTCCAGC	GTCTCCAGCG	540
	TCTCATCAGT	ATCTGCAGTA	AGGTAAACTG	CGTTCGTAGT	TGGAAGGGGG	GATTCGCTCG	600
	TGAAAT						

1495RP

	GATCGAATTA	GCGGGTTTTA	ATGAAACATA	AGGAACGAGG	TCTAAATGCG	CAACATCCTT	60
	GAATGCAAGTG	CCAAGATGTA	TGCCGTTCTT	GGTAAAGAAA	ATTGTACCAT	CGACATAGTT	120
5	AATGCCACAT	CCGATCACGT	CGTCTCGACC	ATAGGGCTTC	GAGTACGACT	TGAACAAAGA	180
	GCGGTCAATTT	ATGTAACCGT	CCGACCCGTT	GTAAATGTAG	ACATCCTTAC	CAGTGCTACT	240
	CTGTTGCGAA	GTTGGCCTGG	AACCCCTCAA	AGGCCCTCTT	AATATGTTGG	AAGTTTGCCG	300
	GTTCAAGGCA	GAAAAATTCAC	CCGGGTCCCT	CGAAGGTGGA	TCGCTAGTGT	TTCGTTCCGC	360
	AGCATTTGAC	GCGACTTTTG	ACCAGTCCCT	AAATCCAATA	TTGATATTGC	AGGTTTGCC	420
	TGACTGCGCG	CTGGTCACCG	ATAGTACCTT	AATTTTCATG	TAAAAGATAG	CCACTTTCTT	480
10	ATGATTAATA	CAAGCATTCG	CCCAGGTGGA	AGCCCCCTGC	TGCTTCTGGT	TATTAACCTGA	540
	AGTCCGTAGC	CTATTATTTA	CAATAGGGCT	GTTGTTCATG	CCAGAGTAGA	GCTGCCAGTT	600
	GCGGTTAGGC	CGCAAGTTTG	TGAAACCGTC	TGTTGAGACC	AAAACCTGAGT	TGTTGCACTG	660
	TGTGGTCCAG	AGGTGGGGCA	AAAGGATACC	TATCGAGGAG	TATACGTCTG	AGAAA	

1495UP

	GATCAGCCAA	CAGCTGAGTT	CTGATTTCGAT	GAGAGCTATT	AGTAAACTTT	TTGTGTTTAC	60
	GGTGCTGGTC	CTGGGATCGT	TACAGTACTA	CTGTGGACGC	TACGGCGCGT	GCCCCGCGCA	120
	GATTGCAAGTG	ATAAGCCATT	ATACGTGGCC	TTGCACGTAC	GCGCCGCGCAG	TACGGGATAA	180
20	ATTAGGGAAG	GCCAGCGAGT	GGTACGGGGC	CAATGCGGGT	CCGCATGTGT	CGGTGGCGAG	240
	CGGGTGGATG	CAAGGGAAGG	TGATGCCGCA	CCTGACGAAA	GTATCCCACT	GGACGGAGAA	300
	GCATGTACAA	CCGCGGATGC	GGCAGGCTGG	CGCGGACGCG	ATAGTAACAG	CGCGCGTGGC	360
	ATGGAATGTC	GTACAGCAGT	ACCAGCGCGG	GCATGTGGTG	CCTCTGACAG	GGCGACTGCT	420
	GGCGAAGTGT	CCGTGTCTCG	AGAGGTGGGC	CGAACAAAGCT	GCGCGCGGCT	GGCAGTGGCT	480
	CTGCAAGCAT	GCTCGGGGCG	TACCACAGCA	GTACAGCAGC	AGTATCCTGC	GTTTGTGGCG	540
25	CATATGGGGG	GCATATGGGA	GCCTTTGCAC	GGCGCCTACA	ACCGGATCTA	TCTGGACTTG	600
	GGCCGCCAG	TGCAGGAGAA	GACGTCCGAG	GACSCAGTGC	GGCGCCCGGG	GGGACTCAKT	660
	ACATCACATC	CACATATACA	ATGACCATGA	CTCGCTCGAT	GAATCTC		

1496RP

	GATCGTTTTTC	TGTCAAACCG	CAGTCGGGTT	CAAGGAGTAC	GTTGAATTTA	GCTCTTGCAT	60
	TCAACAAGTC	TTTCCCAGTT	TCCACAATGT	TGTCGATAAT	GAAGGGTTTA	AAGTCTAGAA	120
	GCTCTTCTTG	CGTGAAGCCG	TTCTGGTGAA	GAATCTTCAG	TTGTTGCAGT	ACGGTTCGATT	180
	TCCCGCTCTC	GCCACAACCC	AACAACAAAA	CCTTGAGCGC	GCGATTGCTG	GCACTCGGTT	240
	GCCCCATTGA	CCCTGGTCCA	GCCACTGCCG	TTGTCTGCTG	ACTCGTCCCG	GATACCAACGG	300
35	AGCGTTTCCT	GCCGCCCCGT	GTAGCGCCGG	ACGTGCTATG	ACTGGGTGAC	GTCTCAGGTT	360
	TGACTTCTGC	ACCGTAATCT	ACCCTCTTTG	CTCCTGTTTC	TACCTTCTGA	GAAGCACCAT	420
	GTCTGTCTTG	ACGCCGCTTT	TCCGCGTGTG	TTGCTGATAC	CTTGTCCTTC	GACGCGCACA	480
	ACCCCAATTAT	TCCGGGCTCT	ATATCCACCA	GTACTTGGAG	CACCTTAGCG	CCTGGCTTTT	540
	TTTGAAATAT	TACCGTCCGG	GCAAAAGCCA	CTTATAGCGC	CTGATCAATG	GATTCCACTG	600
	CTAGAGGCTA	ATTAGGCTGC	CGCTTGTTCAC	TTCCGCGGGC	ATCACATTAT	ATTCATAGCA	660
40	AAGTAGGTGC	CAACAGAAAA	AATCAGCCCG	CCTCCTTTAT	TGATCACGTG	AAGAAATCCA	720
	CATGAACAAT	CACGTGAACA	CACATTTGG				

1496UP

	GATCGAAGTC	AATGCCAGAC	TATCTCGTTC	TTCTGCATTG	GCGTCCAAGG	CAACAGGATA	60
	CCCCCTTGCC	TATACTGCCG	CTAAGATTGC	TCTTGGGTAT	ACATTACCAG	AGTTGCCTAA	120
	TCCGTGTTACC	AAGTCGACGG	TCGCCAACTT	TGAACCCCTCA	CTGGACTACA	TTGTGGCCAA	180
	GGTTCCAAGA	TGGGATCTCT	CCAAATTTCA	ACACGTGGAT	AAGACTATTG	GGTCTGCCAT	240
	GAAGTCCGTA	GGTGAAGTGA	TGGCGATCGG	CCGGAATTTT	GAGGAAGCTT	TCCAAAAGGC	300
	TTTCCGTCAG	GTTGATCCAT	CTCTACTAGG	TTTCCAGGGC	TCTGACGAAT	TCCGAGACCT	360
50	AGATGAAGCC	TTGCAGATTT	CTACAGATAG	AAGGTGGTTG	GCTGTGGGAG	AAGCGCTAAT	420
	GAACAGAGGT	TACTCTGTGG	AACGTGTACA	CGAGCTTACG	AAAAATTGATA	GATTTTTCTT	480
	GCACAAGTGT	ATGAATATTG	TCCGAAATGCA	GAAGCAATTA	GAGACCCCTAG	GATCAATAAA	540
	TCCGCTAGAC	GAGGTTCTGT	TCCGGAAGGC	TAAAAAGCTC	GGCTTCTGTG	ACAAGCAGAT	600
	TGCACGGGCT	ATTTCAGATG	ACCCTCTGTA	ATTGGATATT	AGAGCGCTCA	GAAAAAGCTT	660
55	TGGCATTTTG	CCATTTGTGA	AACGTATCGA	CACCATGGCG	GCAGAAAGTT	CTGCGGTAAC	720

CAACTACTTG TATGTTACCT ATAATGCGGT CAAA

1497RP

	GATCATTGG	TCTTCTTCGC	CTCTACAAAC	TGTGAATATC	ATACTAGACC	TGAAGTCAGG	60
	TAGGGAGCAA	CCCAACCCCT	CGGTGCGAGT	AGAGGCTGGC	AAATCCATTA	AAAAGACCGA	120
5	TTGGAATGGG	AACTCTAAAA	TTGAAACTAA	GCAATTTTAT	GAACCTCTGA	CAGTTCTCTG	180
	TCTTTCCAGT	ATTGACTATT	ATAACCTTAA	GAGAAGGTAT	CGAACCTTACA	AATCTCTGAA	240
	AAGGGCGACT	ATTGAAGATA	TATTACATGT	TGTTGTGCGAC	AGAGATCTGG	CGGAGCGCAT	300
	TGTTACTCAT	ATCCAAAGAG	AATCTGAGCT	GCAACAATAT	GAGGAGGATG	GGAGGAATGA	360
	GGTATGAAAT	GTTCCCCATT	TGGATTAAGG	TATCAGGTGG	TCACGATATC	CACTATATGG	420
	TGCTATTAAAC	GGCATGCAAA	GTGTAGAATT	AACTAAAGA	ATATGTTATA	TATATATATT	480
10	ATAAACTACA	AACTAACGGA	CGCAATGAAA	TCTAAGTGTC	GCAAGGTTAG	CCTTAATACC	540
	GGTACTTGGA	TAAAATCTCC	TTTTTCAAAT	GATACAAGCG	TCCCATTTC	AACGCCATGC	600
	CAGAATCACT	GGCTGGATT	ATCATGATTG	TGATTGCGGT	TGCCTCAGTC	GGAAATAAAT	660
	TAGCAATACT	CATTATACCC	TTGCGGACCT	CCAGCCGCTT	CTCTTGCGTA	GGTTCAAATG	720
	AGGCAATTTG	CATACTCTTT					

1497UP

	GATCCTGTCA	CAGCGGGCGA	CGCCGCGAGC	CGCGTACGGC	GACCTGCAGG	ACGAGGTGAA	60
	GGTAGGAGGG	TCCGAGGCGG	CCTTTGGCGA	TGGGGCGTTG	TTGCGGGCGA	TGGGCGGGCG	120
20	CGCGCCGGAG	GATGGCGACG	AGGGCCCACA	ACTTGGTGCC	GGGGTGGCGC	CCATGGTGAC	180
	GCCGACCTTT	CCGATGGAAC	CCTCGCAGCC	GCACGCGCTG	CCACAGCAGG	CCCCACTCC	240
	GCACCAGCCA	CAGCAGCCGG	CCCAGAAGCG	AATGCACATG	CTCCAACAGC	TGCACGAAGA	300
	GCAGAAGAAC	TATTCTTACG	TGGACCGCCA	ACCGTCAATT	ATGCAACAGC	AGCCACACAT	360
	GATGCAGCAA	CTGCCGCAAC	AACGGCCTCG	GATGCAGCAA	CTGCCGTTGC	AGGGCCAGTC	420
	CGAGACGCCG	AAGCCCGCAG	GCAGTTCTCC	AATGGTGGTG	CCCGTCAACC	ATAGGCAGCT	480
25	GTTGCAGAAC	CTCGACCCCA	GCATCCAGAA	AAGAGTATCA	CAGGATCTGA	ACAGCAAGCA	540
	GTATGAACTA	TTTGTGAAGT	CTTTTCATGGA	ACATTGTAAG	CGGTGTAATA	TTCCGTTTAA	600
	CCCAACCCTG	AGATAGGCGG	GACGCGGGTG	AACTTATTCA	TTTTATACAT	GTTGGTACAA	660
	AGAATGGGCG	GGGCAGATAA	TATCACGAGG	CTGCAGCAAT	GGCGCGGCTT	GGCAGAAAAA	720

1499RP

5	GATCAGCTTC	ATCGATTACC	CAGAATTCCG	CTTCAACAGC	AACGAGGCCA	CCGAGATGCC	60
	CTTCCGCTAC	GTACTGGACG	CTGCTGGCAG	GCCCCATTCTG	CCATCAGGCA	TGCTAGAGCT	120
	CATCAAAAAG	GACTCCGAAC	AGAGTCTGGA	TGACCTACTT	TAGGCTCGTT	GAACAACAGC	180
	TTATAGATGA	TGTATATATG	CGCGTCTGTC	GCCAGAGACT	GGCATCGGAA	GCCACGCAAC	240
	CTAAAGTCGA	TAGAACTCTG	TCAACAGAAT	CAGTTCTTTT	CCTCCTTCAG	CATCTCGCCA	300
	AGCAGCTGCT	CGAAAATCGAT	ATCATCAGAA	GTGGTTTTTTG	CAGGAGCAGC	TACGGCGGGC	360
	TGCTGCGACG	CACGTCTCT	AGCCTTGATC	AATGACACAC	CCCCGAACAG	CGTGAATAGC	420
10	GTGCCAAGCA	CCAAAACATG	AGGCTGAACC	GGCTTTTCCAA	AGATGTTGTA	AGCTTGACCC	480
	ATCGCTAATC	ACCGAATCCG	CTGCAGATAT	GGGGTCTGAT	GGTCTGGTGT	GTAGCGGTGT	540
	GCATTTGTGA	GCTCCTATTG	GCGGAGGAGG	CAAGTCGATC	TAGAGGGCTA	CAATGAGGTG	600
	TTCCGGGTGTT	TGTCAGGGTA	CGGAGGAGGT	AGCACGTGAT	CGTTCAAATA	TCTGTACCGC	660
	CCCATGAACA	TCTATTCCGT	GCAITGGGTT	TGGAGCACGG	GCGATCATTG	GAGACTAACA	720
	CTCACGAATT	TTGCCCTGGCG	GA				

15

1499UP

20	GATCGCAATG	GAGAAGGTAA	CGCTGCTACC	GAAGGTTATC	AGTGTITTGA	ATAAGGCGAA	60
	CCTTGCAGAC	ACAATTTTGG	ACAATAATTT	GCTACAGAGT	GTGCGGATCT	GGCTTGAGCC	120
	ACTGCCGGAT	GGATCCCTAC	CATCCTTCGA	GATACAGAAG	TCTCTCTTTG	CCGCGATTGA	180
	GAACCTCCCC	ATAAAAACAG	AGCACCTCAA	GTGGGGAAGG	CTGGGGAAAG	TGGTCATATT	240
	TTACACCAAG	TCTAAGCGTG	TAGAACACAA	GCTGGCCCCG	CTAGCTGACC	GGCTGGTTGC	300
	AGAATGGACG	CGCCCTATTA	TCGGCGCTTC	CGATAACTAC	CGGGACAAGC	GTGTCTTGAA	360
	GATGGACTTC	GACGTGGAGA	AGCACCGTAA	GAAAGCGGCA	CTTGATTCTG	CCAAATCTAA	420
25	GAAACGGAGA	AAGGCTGCAG	TGGACGAGGA	GAAACACAAG	TCACTCTACG	AGCTTGCCCG	480
	TGCCAAGCGG	AACAGAGCCG	CAGCGCCTGC	GCAGACAACC	ACCGATTACA	AATACGCACC	540
	AGTCAGCAAT	ATCTCGAACG	TACAGACCCG	GATCCGCACG	GCAGGCGTGG	GCTCCACGCT	600
	CAACAACAAC	GATCTGTACA	AGAGACTCAA	CTCGAGACTT	GCCAAGTCTA	AACGGTCCAA	660
	GTAACCGCTG	TGTACTTCAG	CTAATAGTAT	TATAATAACG	TTTAATGATA	CTGAAA	

30

1500RP

35	GATCAGCTAA	TGGCTGCTTG	TCAAAGACCA	AATCCTTCAC	CCCTAGAACT	TTTCCTAGAG	60
	CATCCATTCC	GATAACCTAG	GTCGCTTTGT	GTCTTAAAG	AATATTGGTT	TAATTTGCTT	120
	TCGCGGACGG	AGTAAAGCGT	TATGTAGCAT	TTTTCAAAAG	AGGCTTAATG	GACACATCCC	180
	AGGATAGTAT	GAAATGAGAA	GTCCAATTCTG	TGGCACCATT	GTGCTAGTTC	TTATATTTAC	240
	TGTTATACAT	CTACTGCAGA	GTCAAGCATA	TATACCAAAT	AATTCACCAA	ATACTAGCTC	300
	TTCTAAGTCT	TCAGTGTATG	GATTCGCGCC	AAGGCGCCGC	AGAGCTGCAG	GTAGGTACCC	360
	ACACCTTCCA	AAATCTTCAT	GTGCGTGAAT	CCTATTTCCT	TAATCATCTC	CAGCCGCAGG	420
	GGTTCTTTAA	TCTCTGTCAA	GTCTTTCATG	ACACGGAAAC	ATGTAGTGAT	TATGTCCACC	480
40	GCCGAGTACC	TTTGCCCCAC	AATTCGCGTA	AGTAATTGAG	CGACTCATCA	AGAGTAGCAG	540
	ATAGCAGCAT	TTTCTTGATG	ACCAGGGGAT	GCGGCGAGTC	CACTATCTTA	AAAACGTTGT	600
	CGCCGTTTAC	TAACGTGAAG	CCCGCCACGG	TGCTCTGCAG	ATTGTTGATG	GCCTGCCGCA	660
	TGTCACCTTC	CGCAGTGAAT	ATCAGCGCCT	CCAGACCATC	ATTGGTGTTC	TGTACGTTT	

45

1500UP

50	GATCGCGACC	CCCCGCGTCA	CGGCAAGGCC	CGCCAACCGC	GAGGAGGAGA	TCAATGGCTT	60
	TGACCTCGAG	GCGCCGCCCC	AAAAGAAGAC	CAAAATACTA	TAGTAGTACG	TACATTGTAA	120
	TACATGCGCA	AGACTTGCCG	CCAGTTAGCC	GCCCCGCTCC	CAGGTCTTCA	CCAGCGCCGT	180
	GCCGTCCGCA	GACGTGCTCA	GCAGCTGGCG	GCTACCCTCC	TTGTAGACGG	TGTCAATGAC	240
	TGCGCCCGCA	TGCAGAGACG	CCAGCTCGTC	GGACACCCT	ACCTCGCTGG	TCACGTCCAC	300
55	TACGTAGCCG	TACGCCGCAA	CATAGCGTTT	GTCTCTACG	AAAGCGCACC	GTGCCAGGAG	360
	GCGTCCGGTG	TTCCGCGCAG	GGAGGGCAAA	TCCCCGCTT	AGACGCTGTC	CGGCCTGCTG	420
	GCCGTAAAAG	CTCACACTGT	CATCGAAGCC	CAGCGCACAC	ACCTCCTCTC	CATGCGCGGA	480
	AGTGCACAGC	GAGGTCACAC	GAGGTCACAC	GCGGCTCTGC	GTCTTCCACA	CTGCGTCTCT	540
	GCTGCGCCGC	TGCTCGTAGG	CTCGTACCAC	TGGCTCAATC	CCCGACGTGT	ATAACCGCCC	600
55	GGCCGAGACC	GGGCAGACGG	CGGCTGATAG	CAGCGGAAAG	TGGTGGCCA	CAAAAGCCGC	660
	CGGG						

1501RP

	GATCTATTTA	AATATAACAT	ATTATTTATT	TCTTTTTTTA	AACATTTTAA	ATTTAATTAA	60
	TTATTTATTT	ATTTAATTAA	TTATTTTAT	TAGTTAAGAT	AATTTTATAA	CTTTAATTAG	120
5	AGAGCTAAGG	TACACACCCC	TAATGCTTTC	AGCATTCTTG	TGGTACCAC	CTAATTAAAG	180
	AGTTATTATA	TTAATGATAT	AATATGTAGA	TATTCAGTTT	TGAACTGAAG	ATATATGTCC	240
	CTAAACATA	TGTTTTACCA	ATTAACTAT	ATCCACTAAC	TTTTATTATA	TAATTTAATA	300
	ATTAAGAATA	TTTTAAGATT	GAATTAGAGG	AGTATTAAAT	GAATGAATAA	GAGGTGGTGA	360
	ATTTAATATA	AACTCAATAG	ATGATGATTT	AGTAGTATTC	ATTAAGAAAA	TATTATTTGA	420
	TTCAATAAAA	TCAGGTAGTT	TTATATAATT	AATAGATTTA	TTATTAACCT	TATTAGTTAA	480
10	ACCATTTATT	AATTGATCAT	AAATAATATA	AAGGAATAAC	ATTAATGATA	TAATAGTTAT	540
	TATAGAACCA	AATGAAGATA	CTAAATTTCA	ACCTAGGAAT	AGATCAGGAT	AATCAGGAAT	600
	TCTTCTTGGT	ATACCATTAA	TACCTAAGAA	ATGCATAGGG	AAGAAAATAA	TATTAAGACC	660
	TAAGAAAATT	AATCAGAAAT	GAATTGTGAT	AATTTT			

1501UP

	GATCAAAATA	AAATAGAAAT	TAGCTTAATG	GTAGAGCATT	CGTTTTACAC	ACGAATAATT	60
	TGAGTTCGAT	TCTCAAATTT	CTAAATAATA	ATTAACAATA	ATTTAAATTT	GGGTAAAAAT	120
	TAATAAATAT	TAACGTATAT	AATAATTATA	TACTTTATAA	AATTACTCAA	TGTTATTAAT	180
20	AAATTTATTT	CTTATCATT	ATAATGATGT	ACCTACTCCA	TATAATATAT	ATTTTCAAGA	240
	TTCACTACTA	CCTCATCTAAG	AAGGTATTTT	AGAATTACAT	GATAATATTA	TATCTATAT	300
	GTTACTTGTT	TTAGGTTTAG	TTTCTTGAAT	AATAATTATT	ATTATTAAAG	ATTATAAAAA	360
	TAATCCTATT	CTTTATAAAT	ATATTAAACA	TGGTCAAATA	ATTGAAATTA	TTTGAACAT	420
	TTTACCAGCT	ATTATTTTAT	TAATAATTGC	ATTTCCATCA	TTTATTTTAT	TATATTTATG	480
	TGATGAAGTT	ATTTACCAG	CTATACTAT	TAAAGTTATT	GGTTTACAAT	GATATTGAAA	540
25	ATATGAATAC	TCAGATTTTA	TTAATGATAA	TGGTGAAACT	ATTGAATATG	AATCTTATAT	600
	AAATCCTGAA	GAATTATTAG	AAGAAGGTCA	ATTAAGAATG	TTAGATACTG	ATACTAGTAT	660
	TGTTATTCCG	GTTGATACTC	ATGTAAGATT	TATTGTTACA	GCTCTAGATG	TTATTCATGA	720
	TT						

1502RP

	GATCGCTCCC	AACCCCTGCT	TGATCTCCAT	ACTCATCTGG	TTTTTCAGGT	AGCGCGGGTG	60
	GTTGAATACG	GACTTGTCGA	AAACGAACAC	ATAAGAGAAT	GACGCCACGA	TCAGGTACAG	120
	CAGCCAGCCA	AACACTGTCT	TCACCAAAAA	CAGAGACAAG	CTCTGCCGCA	ACAGGCTGTA	180
35	TCGCGGCAGC	ACCGACCCGA	AAGCATGCGG	GCTAACCTCG	AACATAAACG	GTGCATACCC	240
	ATATACCTCC	AGCGGCCTCT	CAAGCGACCT	CCCGAACACG	CGCGTCGCAT	TTACCATCTG	300
	CTCCTTAATC	ATCGCCTGCT	GCCCAAGTCCC	GCCCATCTTC	GGCGACAGCG	ATGCTGCGAG	360
	CAGTGTGGCA	TACACATAGT	CGAAGAAGTA	CGAGTCGCAA	AACTCGAGCA	CTAAATCCAT	420
	GGTCGGAGAA	CGCTATAGAC	TAGGAGAAAC	AATTTTAGCT	CTAGGTTGCC	TGCCTTCTAG	480
	CGTGATAACA	GATCCTGCTA	CAGCTACTAA	AGCCCATCTG	CCGCTCTCCT	CTGGCTTTT	540
40	GCACTTTTAT	ATGGTCCATC	CCGGCACTGA	CCTAACGTAC	GCGGCTCTAT	ACGACGCTAA	600
	AAAATCAAGT	TACGAATGCA	CTATACGAAT	GCGTTGAGCA	AGGAACGAAT	CCCTTTTGGG	660
	ACGACGATAT	CACGTGAACG	AAGCCGCAAC	GTTCCGGTGC	CGGGCGCCTA		

1502UP

	GATCAAAAAAT	ATTCGACGCA	TTTGCCGCTC	TTTAGTGATC	TTCCGGTTCAT	TATGGAGATG	60
	GCCAATTTTAC	ATCGGTATTT	TCGCCCTTACT	CATAAGAGTA	TACAGTGCCA	ATTTCCGTGA	120
	ATTGAGGCCCT	ATAAACATCT	GGTATGTCTT	ATCTTCAGTT	CTCTCTGGGG	ATTCGCCCCAT	180
	CACTGGGATT	CCATTGAGTT	TCAGGCTGCC	AGGAGTTGGA	ACTAAAACGT	GGTTTTTGGG	240
	TCCTCTGAGA	TCTCTGTTGC	CATCAAGCGC	AAGATAGGCA	GCGGTGCTTT	TGTATGAATA	300
50	TGCGGTTGAG	GATGTCTCAC	TCCAGGTTGG	AAACCTATAT	TATGGTGCAA	TATATATTAA	360
	TGATAAGAGC	TTTCTCTGAC	TAACAGCAGT	AACTCTTAAT	TGAAGTATTT	GTTATTTCCA	420
	ATCTTCATAC	AGTATGTCAC	CCTGTGTGAT	TATAGATTTT	GTTTACGAAT	TGGATCGTGC	480
	TTTCGTGGCT	CGGAGGTCAG	AAGATCGATA	TAATAATATA	TATATTATTA	AATTATGGTA	540
	GGTAGGGAAT	TGCTATTTGT	GTCTAGTACT	CGATGCCTTA	TCTACAACCT	CTAGTTGCAA	600
	CACATGATAT	GCTGTGGACC	AAAACGCTAC	GGCGTTATTG	ATTTTATTCA	AGGTCAAGAT	660
55	CATATATTAG	CGTAATATCT	GTGGAGGTTT	CT			

1503RP

	GATCTTCGTA	TACATGTGCG	AAAGCTCCTC	AAAAATCTTT	TCGTCTCCAT	CATGAGAGGC	60
	TGCTACAGCT	TTTGAGCCGA	TAGAATTGGA	AATACCATTG	GAGATTGCTA	TTAGTAGGAA	120
5	GACAAATATA	GTACCATCTG	TCGATGGGGC	AGAGGCTTTA	TCAAGAAGGT	CCATCAGCTT	180
	GTTCTTGGAT	ACAGCAGTCT	CATTTAATAA	TAATGCCTGC	TCACCACTGG	GCAAAAATTC	240
	AGAAACATTG	AGCAGTTTCA	AGAGTGAGTT	CGACTCAAAG	TTTTCGGTCA	TTGTCTCTAA	300
	CAAGACAAAA	ACAACGTCCT	TCCTGCTCTC	ATGAACATCA	TAAGCCTTGA	AAACCTCGAG	360
	CAAAATAGTA	TTGTCTCTGA	TCACGTTCAA	AAATACCTCT	AGAATTAATG	CCTTCCTCCA	420
	CAATAAAGTG	TCAGATTTAG	GAGACAGAGT	GTGGATTAAT	AATGATAAAA	TAACCTCCAA	480
10	TTCCAATTCC	AGCAATGTCA	AATACTGAAC	CTTTATGAGA	AGTGTAAATC	ATCTGGCGCT	540
	ACGAACCACA	ATTGCAAAAT	TTTTGGATGA	GGAAATGTAC	CTCAATAGCA	GCGGCACCGC	600
	CTTTGTTTCG	AACAGAAATA	ACAGATCTCG	GTGTGTCAAA	AATAATAATT	CATAGTTCAA	660
	TAAACCAGT	TCTAGGAGCT	CTAATCCATA	CTCCTCATTT	ATGCAATTGC	TATCCA	

1503UP

	GATCTGCGCG	CTTCGAAGGG	AAAGGCGGGC	CCCAATCCCC	AGTCTATGTT	CAAGAGGGCG	60
	AACAGCAGGC	CGTCATGGCA	TTCAATAAGC	GAATGGGCAC	TCGAGCGTTG	GCACATCATG	120
	TGCTGGATAG	CATCATATAC	TACACAGACA	AGGTGGTGGT	GAAGGGGCTT	GGAAATTTGT	180
20	CCGCGAGCTT	ACCTTCCAAG	ACCTCCTCGG	CGACAAGCGT	CAGGGGTCGT	GTAAGGAAAC	240
	GCATTGGTCT	CGAAGGCGCA	AATGATGTCT	TTGTATACCG	CACAAAAGAC	CTGGTATTCTG	300
	ATAGTGATGA	AGATATACCC	AGAACCTAAC	TACTTGTGTC	GATATTTCTC	ACACCGCCTG	360
	GTGCGGAACC	GGGGGCATAC	ATTCTGTTTA	CACAAGAGGG	GTTGATGCAT	AAAACGCGCT	420
	TTCAAAAGTG	GCAAGCGAGA	GCTGCCGACT	GTCGTTGCTT	TTGGTGCGGC	GACTGTAGGC	480
	AATGTGCCAT	CCCGTGCGCC	TTCTTTTACG	CGAGATCCAG	TCTCGCAAGC	CTGGCTGTAA	540
25	CCAGAACACT	CGGCTGAAGC	CCGCGACAGG	TCCCTCGTGG	ACCAGGCAGG	CAGCCTTGCA	600
	TCTGATAGGC	CGGATACTGG	GTATCTGCCA	AGAGAGG			

1504RP

30	GATCAATTAA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAATGA	ATACTACTAA	ATCATCATCT	120
	ATTGAGTTTA	TATTAATTC	ACCACCTCTT	ATTCAATTCAT	TTAATACTCC	TCTAATTCAA	180
	TCTTAAAATA	TTCTTAATTA	TTAAATTATA	TAATAAAAGT	TAGTGGATAT	AGTTTAATTG	240
	GTAAACATA	TGTTTTAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATWAT	300
	ATCATTAAATA	TAAATACTCT	TTAATTAGAG	TGGTACCACA	AGAAATGCTGA	AAGCATATAGG	360
35	GGTGTGTACC	TTAGCTCTCT	AATTAAGTTT	ATAAAATTAT	CTTAACTAAT	AAAAATAATT	420
	AATTAATAAA	ATAAATAATT	AATTAATTTT	AAAATGTTTA	AAAAAAGAAA	TAAATAATAT	480
	GTGATATTTA	AATAGATCAA	AATTTCAACA	ATTTCCATTT	CATTTAGTAC	TACCATCACC	540
	ATGACCAATT	GTTACATCAT	TTAGTTTATT	AGGTTTACTA	TTAACTTTAG	CTTTTACTAT	600
	ACATGGTATT	ATTGGTAATA	TTTATCCCTT	ATTATTATCT	TTATTAGTAG	TTTTATTACK	660
40	AATAACTTTA	TGATTTAGAG	ATATTGTAGC	TGAACCTTACT	TATTTAGG		

1504UP

45	GATCTTAATT	TAAAATTTTA	ATTAACTATT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATGAAAA	TTAGTAAAT	120
	AAATAGAAAA	CCATAAGTTA	ATTGATTCAT	AAAGAAAAAT	GGAAATTTT	GTGGCATCTT	180
	AATTTTATT	ATTTAATTGA	TTATTATCTA	TTTAAACATA	AACATTTTAA	AATGTTATAA	240
	AATAAATAAG	AAATTACTTA	TAGAATATTT	ATTAAATAGT	ATTTAATTTA	ATTTTAATAT	300
	TAAATATACC	ATTTTTATTA	ATAAATAGAT	TATTAAGTTT	ATTAATATTA	AGTGATATAT	360
	AATTTAATTT	ATATAAATTA	TTTAATTTAC	TTCAATGATA	TATATAATTA	TTAAATGTAC	420
50	CTTTCATAAT	ATTTATTTT	ATTAGTCTAG	TAATATTTCT	ATTTAATAGT	CTACCCTTTA	480
	ATTGGATATT	ACTACCTACT	AAATATTTAC	CTAATAATAT	ATTATTAAGA	ATACPTTAAT	540
	CTAATAATTT	ATTATCTAAA	GTATATAAAT	TAATTAATTC	TTTTTTATTA	TTATTTAAAT	600
	TATTATTAAAT	TAGTAAATTA	TATTTATTTA	TTTTAATTTA	CATAATTTT	GATAATAATA	660
	TACATTATTA	AATGGTAATT	TATTAATAAT	TATCTTTAAT	GATTTAATGA	T	

1505RP

	GATCATCTTT	ATACCATTGG	CTCCTGTTCC	GTGTGCACCA	ACGTAATCAA	AAGCGTGTGC	60
	CCCCTCGCTA	CGCAGGAAGC	ACTAGAACTA	GCTGAGTAAA	GCAACGGTGA	AAGTCGATCC	120
5	CTGATATATA	TACGAAACCA	GAGATACCTT	CATCACAAGG	ATCTTGTTCC	TCGTGGCCCA	180
	ATGGTCACGG	CGTCTGGCTA	CGATAGTAGT	TACTTCTGAA	ACCAGAAGAT	TCCAGGTTCC	240
	AGTCCTGGCG	GGGAAGTCCT	TATTTTTTTT	GTTCCCTCTT	GTTTCAGCTT	TTTGTCTTAA	300
	AAGGAGCAGA	AAGATTATTT	TGCAGCTCTC	TTTTGGCGCC	AGCTGGCAAA	AGCGAACTGT	360
	TGATTGACAA	GCTTTTAAAC	TGTTATTAAC	CACCAGCAAC	CTCTCGAATT	TATCATGTCT	420
	CCATCAAATA	AGGATATTGC	TGCCCTAATT	GTTGACTTCC	TAACTACGTC	CGCCAAAAC	480
10	GTAGGAGAGG	ATTACGAAGA	TTCCCTCAAA	GTGGCAATTG	ATTGTATCAC	TGAAGCTTTC	540
	GAACCTGGAC	CAGGCGAAGC	TGACACATTA	GTTTCCGAAA	AGTGTGGCGG	AAGAAGCTTC	600
	TCTCAGTTGC	TCACCAC TGG	CATGGCTCAC	ACCTCAGATG	CAGGCGAACC	GAAGGTAGCC	660
	GCCGAAGAGT	TGAAGAAGGA	AGCTGAGGCC	TTGAAACTGG	AAGGTAACAG		

1505UP

	GATCAAGCTG	GACAAAAACT	TCCGTAACCTA	TCTGAACCTA	CTGGAAATGG	TTCAGGGGTA	60
	CGTGGAGCTT	AACATGTATG	AAGATGTCTG	GCGAAAGCTC	GTTCAATTAA	ATGGGAAAAA	120
	TGAGCCTGAT	AGAGTTCAG	GATATTATAT	TACGAGGTCT	ATCTCACTGA	ACCAGCTTTC	180
20	CACCCAGTATA	TATCCTGAGG	AGTTGGATAA	GTTTAACTCTA	TCTCCTGTCA	CCGAGATAGA	240
	AAAGAGGGTC	GTGCAAGCCA	CTGAGTGTIT	CTCGAAACTA	ACATTAACAA	ATAGCCATCA	300
	TGAAABGGCG	CGCATACTGA	TATCAACCTT	TCAAAAATTG	ACAACGAAAA	CTTCTCAAGC	360
	TACTTTGGAT	CCAATGATTG	ACGCAGATAC	CTTACTGGGT	TTGATGGTTG	TTGTAGTTTG	420
	TCCGCGACAA	GTTAAAAACT	TGAAGAGTCA	TCTAGATTAT	CTTAGAGAAT	TTGCCGAGAA	480
	TTCCGATGAC	GTAAGATTG	GGCTCCTTGG	GTATTGCTA	TCCAGCCTCG	AAGCGGTGGT	540
	CGGATATTTT	GATATTGGCG	GCAGCTCAAT	TAAACTTGAA	AGATTGATCA	CACCATGTCC	600
25	AAGGAATAAG	ATCTTCTGGA	ACTTGATAGA	GCAAGGAATT	CCAATAAATT	TAAAGGAACA	660
	TGAAGAAGTC	CTCATATCGC	GCACCTCCGT	CTGTGAATCA	TTTGTCTTTT	ATGTT	

1506RP

	GATCTACCGG	TTCCGGTATCC	CCCTTTGAAA	ATAAAATCTT	TGTCTTTTGC	ATGCAACTAA	60
	AATGGGATGA	AGATGCAAGG	GATGTTATTT	TTAAGTATCT	CCATCTTTTG	GAGCTTCTCT	120
	CACAGGCTGT	AACATTAAAC	AGGTCAAAAA	CTCTACAGGT	TATAGAAAAG	CTTTGTACACA	180
	GAAAAATTAGC	GTATACGAAG	TCCGATGAGT	CTATTTTCAG	CAGCATTAGT	GATATTCCGA	240
	TTGATGGACA	TGACTTGTCA	ACCGCTGAAA	CATCTTCCGA	AGAGCAGCCG	AAATCTCAAT	300
35	CTTTGTTCGA	GCTATTTGAG	GAGAAAATAT	ACAGCCTAAA	CACCGACGCT	CCTTATATGA	360
	CTCACCAGTA	CCACTTCATC	CAATTTGTGG	CTCCTCAAA	TCAATTGAGC	ACTAAGGAAT	420
	CGCCCGGAAC	GTGTGTGCTT	GTTACTGCCC	CTTCGATGAA	ACTGAAAAAT	ATAGACTTCG	480
	ATTCAAATAC	TTCCGACAAT	GAGTATWATG	AAAATGTCTT	TATGACGAGG	TACACTGCAG	540
	CATTGATTCA	AGCAAAATGA	TTTATCTTCC	AAGAAAGTGA	CTATAAAGTC	TTTGAGAACT	600
	CATTGTTTAA	TCCCAAAGGC	TACGGTGCTA	AAAGTACAGA	AAATTGGCAA	CCTTGCTAG	660
40	GACTGGAAC	ATGTTTTGAA	CCGGAGCCCT	TGCAAACTAA	TACGGTTATT	AAAGAAATTC	720

1506UP

	GATCTCCCCA	TAAGCTCAAC	ATTTTCGATA	TAAGATATTT	GCGTCCCCGC	CCAAAAACAG	60
	ACGGTCCGGT	CCAAACTCAA	TGCCCCATTT	GCAACAAACG	GCAAATCATG	ATTCCATCTG	120
	TCCCTCTCGT	CAATCACCGA	ACTTAACAGT	AGTTGACGCT	TTGTCACTTG	GACTAGATAG	180
	TTGTTGGTAA	CGAAGTAGTA	TATCGTGGCG	CCAGCCAAGT	CGCTAAGGAT	GCCATCAACT	240
	TCGTGCGATT	CCATGTCCTC	TTCCGAAGAA	AAATAAAGTA	CAAAACGCCCT	GGTTATGGTC	300
	GCCCCATCAG	AACCAATAAC	CAATAAACCT	TTATAGCGTC	TATCATCGCC	ACAAAGTCTT	360
50	GTATACACTT	CTTCGGCAAC	GGCATCCAGT	CCTATGGTCC	ATATGCTGTT	AAAACGCAGG	420
	AATTCTCGCA	GGTACAATAT	GTTTTTAAAA	TGGGTACAT	GACCATTAGT	TGATATGTTA	480
	GACAGCACGG	ATGATGAGCA	AGAACATAAC	TCTTCTCTGA	TTGTACCTGA	AATGCGAGGA	540
	GTTTTATCGC	GGAAAGAGAT	CAGCTCTTCC	GCGTATGCAA	AGCTGGTATC	CTTGGTGTGT	600
	CTTCTAAGAA	TATTTGACAT	AGACTCCACA	TAGGCTCTGT	CATCGAGGAT	TGCAATGCCA	660
55	AGAGAGATCT	AGCGTTATCT	CAATACCTT	CCAAAACCTA	TAATCTGTAA	TTT	

1507RP

	GATCGGCTGC	GCTCCAACGA	TGGCAGCATT	GCTCCTAACG	GGGCTGAAAT	ATATGTCGGA	60
	CTCATGGCTG	ACTTTAGCGT	CGGCGGGCCA	GACACGTCCA	ATGCGCCCCG	GGGCTGTGTG	120
5	CTGCGGATCC	ACCTCGAAGG	ATGGCGGTGC	CAGATGGTTC	TAGACGGGAT	CCATATCCCG	180
	AACGCTATCA	ATTGGAGTGC	AGATGGCTCG	CAATTCATC	TGACTGACTC	GCTAGCATT	240
	ACCATATGGG	CGTGCCCGGT	AGTGGACGGT	AGCCCAAC	TCCTCAAGAG	AACCCATT	300
	TACTGTACCA	AAAATACTGG	CAATGACTCA	CACACTTCGC	CGGAACCGGA	TGGTGGATTT	360
	GTGGACTGCT	TACTGGGCA	CACTTTCGTG	GCCGTGTGGT	CCACTGGCAA	AGTCCGAGAA	420
	CTCGACAACG	CAGGCAGACT	ATTGCTGCA	TATACACTAC	CGACGCCACG	AGTCAGCAGC	480
10	TGTGTGCGG	GCCCCGCGG	CGAAGTCTC	CTGTCCACGG	CGCACGCGG	CGATTTCAG	540
	ACTGGCGCAC	ACTCTGACGG	CGTCGGAGGC	AGCATTTTCA	GAGTGGTAAT	CCCCGGCCGC	600
	CGCGTTATCC	CAAGCCGCAT	CCCCGCGTCT	TGCGGAAGCA	TCCTTTAAAT	AATATTACT	660
	TCTACACCT	CTCGTCCCT	CTACCGCCCA	GCTCATTGAT	GGGCGT		

1507UP

	GATCGTACCA	GTATAATACT	GGGAATTGAC	GCGCGCAGCC	AAGGCGTCGT	AATCATCGTG	60
	CTGATAATTA	TGTCCATAGC	CATCCATWAT	GGAAATTAGCA	TCAGCTATTT	GCTTACGGTG	120
	TTGACGAGCG	ACTGTTAATC	TCCATAGAGA	ATTCTCCTCA	ATAATTTCTG	AGACWGTCTT	180
20	CTTTTTTAAA	ATCGGCTTTG	GCCCCGAGC	TTGAGGGGGG	CCAGTGCTAC	CACCAGACTT	240
	CTTCTTCGAA	ACCCGCTTGG	AATTTTCGTC	ATCGGAACCA	TAGACAAGCT	CTTCCATATC	300
	CGCTACGGCA	TGCGTGTCA	ATGTCTGAGC	GTGACCGCTA	TCACGTAATA	TAGGCCATA	360
	CAGCCATGTG	ACGTCCGAGT	CCTTGGACCA	GTTGACAACC	TCTGGGCTCA	CGGTGCGTAG	420
	ATTATTCCGG	GCTTTGGCCC	ACCTCCTCCA	GGATGCGTTC	TCGAGCCGCG	CCGCGTTCAC	480
	GAGGTCTGCT	TCTCCCTTCT	GTCTCTTCTT	CAGGATGATG	TACTTCCAGG	ACTGAGAGAT	540
25	GTCTCACTCA	GCCAGTCTGT	GCGAAAGGTA				

1508RP

	GATCCACAGG	CAAAATTTAT	GCATATAGCT	TGCTTATATT	TATGCGGTGG	ATTCTATATG	60
30	TCGCACGCTA	AATACTAATA	GCCGCCGGTA	AAAAGTAGTC	CTCGGCAAAC	TCGGTAACGG	120
	CAAGGTCCGA	ATTATAGAAA	CGGGACTCAG	AAAACTAAT	CCAGAGTAAT	TAAGGGACTC	180
	GGAAAGCGGA	GCCGGTTCTT	ACCGAAAACC	TCAACGGAAG	TATATGAAAA	AATTTATCCT	240
	GCAGATTATA	CCCATGCCTG	TTTTATCCAA	GGTAGCCCAA	ATATATACTA	CAGGAAATGA	300
	GTGACTTTTC	ACTTCGAGAG	CCCAAATAAC	AATAATTTTA	GTAAAAATTTT	AGCATTGCTG	360
	CTACTCCAAC	TTTCCAATGA	ACACTTCTGA	AAGCGTAAAT	ATATAGCTAT	GCGGTTTGCC	420
35	TCCCAGGCTC	TAACTACAAA	TTCCACCTTA	TGTGTGTTAT	TCAGGAAATG	CAGGGGAATA	480
	GTTGAATCAA	CGAAATAGCG	TTAATTTGCA	ACCGCTTGT	ACGTGTATAA	AACCCACCCC	540
	CCTCCGAAAA	AGATGACTAT	CGTTATAAAC	TAAAAAACAT	CATCAAAAAA	GAAGTAAGTT	600
	ACTGAAAAAG	AAATGGTTTA	CCGTCTAGCA	GTGAATTTCA	GCAACCAGCC	CACATGGGTA	660
	ACCAATTTCC	GAATCTATCG	TGCGAATA	CT			

1508UP

	GATCTGGTAA	CGACTAAATA	AGAATCCTTA	CGCAGCAACG	CCGGCCGCGT	CTCGGCAGTG	60
	TAGTGTCTCT	CAAGTGCGCG	TCTGGCACTA	GTTAGGTCTT	GCAGGTTGCC	TTTGAACCAG	120
45	TGCGGCTCGG	TAAGCACCGA	GATGGCGGAA	ACTCCGCGCT	CCGCATATGC	AAGCGCTGT	180
	TCTGTGCTAA	GCGCCTCGCT	AATATTGCCA	CGCGACGGAG	ACGCACGTTT	TATCTCGGCT	240
	ACCACAGCCA	GCCGCGGGGC	GTCCCGCGCC	AGCCGCTCAT	GGAAGTCCAC	CACGCCGGGC	300
	AGAACCCCCA	ATCGAAAGCT	CGCCTCCAGG	TCCGCCATAC	CAGTTCCTCG	CATAGCCATC	360
	TGCGCTGCCA	CGTCTCTCTG	TGCTTGAGCG	TATATCTCGC	TCAGCACAGA	GCCCGCGCCT	420
	GCCCGCAGCT	GGAGCTTGTG	GTTCTCAGCC	CACGTACCGC	CTTCCAGCGC	TAGCATGTTG	480
	CGCACCATTA	GCTGCCCCGTG	GTCCGTGAGA	ATCGACTCCG	GGTGGAACTG	CACACCTTCC	540
50	ACGGTGTACT	TGCGGTGCCG	CACGCCCAT	ACCACGCGCT	TCTCCGTGCG	CGCCGTCACC	600
	TCCAGCTCCG	CCGGGAACGT	TGACGCCAGT	CCAGCCAGCG	AGTGGTACCG	TGTCACTGCC	660
	ACGGCTGGGG	TACCCCTGGA	AGAACCAGCG	CCGTGCTGAC	GCAGCTCCGA	CGTTCT	

55

1509RP

	GATCCAGTTT	CTCTCGCATT	TTCTGAACGA	TGAGATATGA	GTCTAAGTTG	GCTAGATTAC	60
	TATATAGCCA	GTTGTTTCGCT	CGACGGGCCA	AAACCGAGAC	CGGTTCCCTT	CCTTGACAAG	120
5	AAGAATAATC	GCCATCTACT	TTGTTTGAAT	TCTTTAAACC	GTCTAACTCT	TGCAGTACCG	180
	TTTTTGGTAC	TACTATGCGA	TAGCTGTATT	TTGGGGCAAG	CACCTCGTAGT	TCTTCAAGGA	240
	TATCCAGATG	TGATAACACA	TAATTAGTAT	CAACGACCAG	TGCAATATTA	TGCAAGTCTT	300
	GCCGCACTTC	AACCTGCGGC	TGAATTACTT	TTGCGAAAGT	CTCTTCGCCC	GGAATATCGA	360
	CTCTCTTGTC	AGGAATAGTC	TTAATGTGTG	TAATTTTCATG	GCTGTGATAT	TCGTCTATAT	420
	CCATCATCGC	TTCAGCTTCG	TGTTCCCTTA	TAATTTCTGC	TTCAACCAAT	GCATCCAATT	480
10	CTGCAATGCT	ATATTTCTTA	TTAGAGTGCT	TAGGGTTCCA	AGTATGCGGC	GAGCTTATGG	540
	TATGCGTCTT	ATTCTGATGC	CTACGCTTGC	TCTTCCTCCC	ATGGTCCCTA	GACATCTCCT	600
	GTGTAGCTTG	GTGCATAGAC	TGTATATGAT	TGGACTCCAT	CGGAAC TAGT	GGCAGGTTTA	660
	AAAGACATTA	ATTAGGTATC	ACCTCCATTA	ACGTACCTTT	GATATTTATT	ATATGA	

1509UP

	GATCTCGAGT	TTTCATGACGA	GTGCATGGAA	GATGTGTTTC	TAAATGCAAC	TAAGGTCCGT	60
	AAGGTCAGTG	AGGTGCAGTC	CTTTATCACT	CTAAAATTCC	CCTCTTCCTT	TGATGATGAG	120
	ATACTCGAGT	CATCGATGCC	AACTACAAGT	CACCATCAAG	ACTTAACAAC	TCAAGACGTA	180
20	CTTGGTGGAT	TGGTCGATGC	TATGGATGAT	AGGCGCGACC	AAGAAGACGA	TATCGATTTCG	240
	CAACAACCCC	TGGATGTACT	TCCTTTGATC	GGCTGCGACA	GTCCAGTTTC	CAACTTGCCG	300
	CGGATTACGG	AGGTTGCTCG	TTCCGAGGAT	GCAGACGAAT	GGGATCTTGG	ACAGAGCAGT	360
	ATTACTCCTA	ACAACTAGA	AATCCATTTC	GTCCAGACGC	CTACCACACA	CCGTGTGCGT	420
	GTGCTAGAAG	AAGAACAATC	GCCTTTGATC	ATGCTGCAGA	AGCGCAGACT	AGCCAGGAAT	480
	GGGTCAAGAA	CATTAGCCAC	AGCTACAATC	AACCATGACC	AGGAACTGCA	ACTAGAAGTG	540
25	CCAGATAGAG	AAGCCGCTTC	GCCTGCCATT	GAACACGAGC	AAGCCACCTC		

1510RP

	GATCAGAATT	GGAAGGGATG	TTTGCCGGAA	GAAGTTCGTG	ATATCGAGGA	GCCCACTATA	60
30	CCCGTCATTG	GCCGGAAGTT	TTTCAAGTAC	GAATCTCCTA	TAAAGCACTT	GCTACCCCCC	120
	AACGCCACTA	TAAACGACCC	CATTCTCTCAG	CCAATCTGAGG	GAGCGGTCAA	TGCTCCACCA	180
	TTGGTTGGCG	CCGTTTATCT	ACGCCCAAAA	ATTAAAAAGG	ACGACTTAGG	TGAATATTCC	240
	ACCTCCGATG	ATTGTCCCAG	GTACATTATC	AGGCCTGGTG	ACCCGCCCTGA	GGTTGGTAGA	300
	ATCGACCCAG	AAACGGGAAC	CATCATTACC	AATTCCCAGA	CCGCCAGTGT	ACTACCGAAA	360
	ATGAATATGT	CTACACCACG	TCTGTGCTCT	TTGAACCGCA	ACGGTAGCTA	CTCGAATTTC	420
35	ATAGGCCGTT	CCGGTAGCCC	AATTAACATG	ACCAGGTCCA	CCCAATACTT	CGCACCAGTT	480
	CCTAACGGCG	ATCTGAGAAA	TCTGCCAATC	GTGCAACAAA	TACCGAATAG	CACTATCCCA	540
	TCTGCGCAGT	CGTCTGCAAA	AGGCGGCATA	CAGGGGGACC	ATGGGCGGTT	CAATTAACGG	600
	TACTACCCCT	GCATACCAAC	CCCCTTCCAT	TATTAATAAC	CTAGCCGCCC	AGGCTAAGAC	660
	AAACAATACC	GTTCTTGGA	ATATCTTGGT	CGATACGCCC	GGTGCCCTACG	TTCTCCTATA	720
	TCT						

1510UP

	GATCGCCGCT	ACTGTTCTAC	GACCACGCGC	GGGGGCTGAA	CCTGGCGATG	GGGTTCAAGC	60
45	TGGAGGACCC	GCACGCGCGG	GGGAACGAGC	GGCGCTACTG	CCTGGTGCTT	ACGGTGGACC	120
	TGCGAGAACG	GGCGCCGGCA	ATGGAGATCG	TGTCGACGCA	CTGGAAAGTC	ATCTCGGGCG	180
	CGTTTCGAAA	CATGATCGAG	TACATCAAGC	AGCAGCGGCG	CGCGGAGCTG	CTCGGGGTGA	240
	TGCAGCAGGG	GCAGGTGCAG	GGCAGATCGA	ACTTTTCGTC	CATGGTCAGC	GGCACCTATC	300
	TGCGCGGGAA	CAACCTGAAG	ATACCGAAGA	ACATCACGGA	GCTGACCAAC	GATAGACTGC	360
	TGTTTCGTGAG	GATACACAAG	TGGAATGCAT	TTATACTGGA	TAGACTGGGA	GGCAGCTGG	420
	ACTGAACCCCT	TGGGGCGGTG	GCTGCGCGGC	AACAGTTGGA	AGATAGAAGA	CAGAAACGCC	480
50	CGGGAAGCCG	AGGCCGGAGG	TCCGAGGCGT	TACATAACTT	ACATTCCTTA	CTAGATAGTG	540
	TTCCCTGTGA	CATCAAGTTC	AGACGTTAAG	GTTGAACGCG	GCATCGGTGA	TGTGTTCCGT	600
	GAAGGGGGCC	AATGCAGATT	TGACGTCCTT	GTTGATGAAC	TTCTCCACCT	GCTGTGGGGC	660
	CCTGCCCCACA	AACGTGGAGG	GGTCCAGCAG	GGA			

1511RP

	GATCGACCAG	CTGGTGATGG	ATAGGCGGCT	GGTGCCGCTG	GGGCGCTTCG	TGCGGGGGCC	60
	CGATTTTGGG	CTGTTGTCTG	GGGTGAGGTG	GACGCTGCAC	AAGGTGGTGG	ACCTGTCGTG	120
5	GAGGAGCCGG	GTGCGGGAGA	ACGGACGGTA	CCTGCGGAAC	TGCGCATACG	TGAACATGGA	180
	CGTGCTGGCG	GCGCGGCACG	GCGCGGTGGA	GGGGCGCTG	GAAGAAAAGG	TGGTGGCGCG	240
	GGCGACGCGA	TATACGGACC	TTGTGTCTC	GCGGGAGGAG	TTCTACGGCG	TGGTGCGGGA	300
	GAGCCTACGG	GGACGCGGGG	AGTACGATGT	GGTGCTGGCG	GACCTGGACA	AGCACCGCAA	360
	GGCGATTCTA	GTGGACGGAG	ACGTGTGAA	GGTGGTGATG	CCGGCGGTGC	GCGCGCTGGT	420
	GCAGCCGTTT	GGGCCGTGACC	GCGTGACCGC	AAACGACCGC	CACATCGCAG	AGTTCAAGGG	480
10	CTCGCTGCGA	TTGGTGGAGC	GGCAGGTCCA	AGCGATCCAC	GGGCACGTG	AAGAGACAAC	540
	CCGGGCGCTG	CGTTGGCGCC	GTCCCAGCGG	GCGCCGCACC	CGATGTGCAG	CGGCGGTACC	600
	TGCGGATGAA	CAACTCGCGC	AGGCCAGCCT	GTCTCGCGCG	CTCAACCAGT	TTACGAACCT	660
	AATGGAGATC	AAGGAC					

1511UP

	GATCTTGCCC	CACGGCCCGT	CGCTCAAGTT	CCCCCGTCC	GCCACAAACG	CCCGGAACAT	60
	GCCGTCATCC	ACGCTGGGCT	CGCTCCACGG	CGTCTCCCCA	GTCAGCAGCA	CAAACACAAG	120
	CAC'TCCCGCA	GACCAGATGT	CCGCCGTGTC	CGCGTGGTAC	GCCCGCTCGC	CCACCACCTC	180
20	CGGCGCCAGG	TACGGCAGCG	TCCCCCGCCG	GTGCGCGCGC	AGCCGCGCGG	TCCCGTCCGG	240
	CCGCCGGAAC	CGCGTCCGCA	GCCCGAAGTC	CGCCACCTTC	AGGTTCCTCC	CCCGGTCCAG	300
	CAGCATGTTT	TCCGGCTTGA	TGTCCCGGTG	CGCCACGCCG	CACGCCTCGT	GCAGGTGTGT	360
	CAGCGCCCGC	ACCAGCTGCT	GGTAGTAGAA	CGCGCCACCT	CCGAGTCCAC	CCCCACGTCC	420
	GGCTCGATCT	TGTCGAAGAG	GTGCCCCCG	TCCGCCAGCT	CCATCGCGAT	CCATAGGTAC	480
	TCACGTGACA	CATTGCAATC	CAGCACCTTC	ACCACATGTC	GGTGCCCGCG	CACCGCTCT	540
	GCAGCACACC	TCGCGCGTCA	GATCCTCGTC	CGTCATCCCT	CGCGCTTTGC	AGCGCTCGAA	600
25	GTGCACGAAC	TTACAGCCA	CTATCGTCTG	CGGGTCTGCG	CGCAACGAAG	CGGTTTTGAA	660
	GAACGCAACG	TGCCCTGCC	AATCGTCTCC	CGAAGCTCTA	ATTCTTTAAT	CTCCGGGAAG	720
	CA						

1512RP

	GATCTTGACT	GGAAGGATGA	GGAGCAAACC	CCCGACAGCG	GAGAAACTGC	TATTTGCGTG	60
	TCTACACGCG	GCTCTACTCG	CATCCAAGTT	TAGCTATACC	TGCACTATTA	CTAGATATCT	120
	AATGCCCTACC	ATATGTTGTG	ATGACACTGA	CATTACGCCT	TTAACCCTT	CAGCTTATTA	180
	AAAGATTCCA	GACATACAGA	AAAATCCGG	TGTTAAAAGT	TATACATATA	CACCATTTTA	240
35	CCATATACG	TGTAGACGAG	TAGAGCTACT	AAGCAGCCCA	AGAAACACTA	CCATATTCAT	300
	AATGGCGAGC	CTAAGGACTT	TCGATGCTGT	CCGTATGTGC	CGAGGGTTAT	AGTGCACACA	360
	CGATGCAGTA	CTAACAGTCG	TAGCAAAAAC	CGACCAGCAG	CACGTCCGTC	GGTCATCTCG	420
	CGGGGGCATT	ATGTCCATAA	TGATGTACCT	GTTCTCTGCTG	TTTATCGCGT	GGGGGGAATT	480
	TGGCAGCTAC	TTTGGGGGCT	ATTTGACGCA	ACAGTACATC	ATCGACCCCG	AACTGCGGCA	540
	GACAAACGAG	ATTAACATGG	ACGTGATGGT	GCAAATGCCG	TGCAAATACC	TCGACGTCAA	600
40	GGCAACTGAT	ATTACCAGGG	ACATTAACGA	CGTGTGGAAG	AGACTGGTGT	TCAAGAATAT	660
	CCCTTTCTTC	GTACCGTACG	GCACCACATT	TGACTCTGTT	AATGAGGGTC	CGCACCCCGG	720
	AC						

1512UP

	GATCGAATGG	CATCCCATTC	ATCCGATGAG	GACGCTATGT	TAAATAAATA	TTATCTATAT	60
	ACTCTAAATA	CTATATGGTT	TCATCCGTGT	TACCCGGATT	TAGAGATGCG	CGTTCTCGTC	120
	TCCAAGCTTT	AAC'TCGTGTG	GCTGACGATT	CTACATAACG	TGTATTGACC	AGGCTGAGCA	180
	GTAACGTTAG	CAACTTGGAC	ACCAATTATG	AGTACCGATT	TCGACAGAAT	TTATTATAAC	240
	CAGTCAAAGG	TGAGCGGTG	CTTCCGTTTG	GGCGAAGGTG	GCCTGGGATG	GAAGGCTTCC	300
50	GCCACTGGCG	GGTCGGCTGC	CATGCAAAAAC	AACGAACCAA	TTCTCTTGAC	TGCGGACGAA	360
	CTGGCTTCCG	TGCAATGGAG	TAGAGGGTGC	CGTGGCTACG	AACTAAAGAT	TAACACGAAG	420
	AACAAGGGCG	TGGTGCAGTT	GGACGGTTTC	TCGCAGGAAG	ATTTACATTT	GTAAAGAAC	480
	GATCTCCAGC	GCAGATTCAA	CGTGCAGTTG	GAACACAAGG	ACCACTCGCT	TCGGGGATGG	540
	AATTGGGGTA	CTACCGATCT	GACAAGAAAC	GAGCTGATCT	TCTCCCTAAA	CGGGAAACCA	600
	ACTTTGCAAA	TACCATATTC	GCATATCAGT	AACACGAATT	TAACATCAA	GAACGAAGTT	660

GCGCTGGAAT TCGACTTGC

1513RP

	GATCAACTGT	TGCTCCAGTT	GCTCCTTGGG	CTTGGTTCTC	AATTCAAAAG	CTTTAACACC	60
	GGCCTGAGAT	GAGATGTTAG	TACTCCGCGC	ACCTATCAAG	CTTGGGAATGA	CATTGTCTGGC	120
5	AACCTGCGGG	GCCGCATCTA	CCCCTCGGCT	ACCGCTCGCT	GGCTAACCCG	GTATGCGCTG	180
	CTGTGCGGCA	CTTCTGTCCC	ACGGATTAA	GCCTCTAACG	GTCACCTCGA	TACCCAACGA	240
	AAAGCTGCAT	GCCATCATCC	CACGCTATAC	ACCGCTTGAC	ACATACCAT	ATGATTGATT	300
	TTGCTGTATT	TTGCACTAAG	AGCCACTCCA	AATGAACTGC	CTCTTCTGTT	GAAGATGTTG	360
	GCCTGCTGTG	GAAACCGACT	GTGCTCCGCT	CGGTGTGCGC	GAGCGAGTCT	GTCGGACGAC	420
	GCAGAACTTT	CAGCTATACA	ACCCACACAC	CTCCGAATGT	ACGGATGCAA	CAGTCAAACA	480
10	CAATTCACAA	TCACGTGACC	TACAGGTGAA	ATTAACGATT	TCCGCAGATC	GCAAAGTGAG	540
	CGCCAAAGGC	GCGACGGAAC	ACCGGAGCGG	GTACACGATG	GGTGCGACTT	CTTACACTAT	600
	ATATCGATGG	TAACAGTGCA	CGCACAAAAA	AAAGTAGTAT	ACTAGGGTCT	ACGAGACTTC	660
	GCTAGTTTCAT	TTACAGCCTA	ACCTAAAGAT	TAATTATGCC	AAGACAGTGA	TTGGAAGGAG	720

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1513UP

	GATCTTTTAA	ATTGCGCAAG	AACAGCCAAC	ACTCCCGTCA	AAATAAAGAG	CAAAGCGCCT	60
	CCACACCTCT	ACGAATCAGG	TCCGAAAGGC	GATCTTGCAA	TGACGAGCAA	GGTTACAAAG	120
20	AAAGTTAGAG	AGTCGCACAG	TGCATGTGAC	GACCAGCAGC	ATAGTTCTCG	GGCTCGCGGC	180
	ACTGCGAGCAG	AGGGAGCGCC	TAGTAACGTG	GTTC AACCGT	CCCTCGGTGA	TTTGAAGAAA	240
	CTCGCAGAA	ACACACTCTC	CACCCCTACG	TGCAACGAGT	GCATTATATA	ACGGCTCGCG	300
	TCCACGAAAC	TGCAGGAGGT	GAAGCTGGGG	GGACTGCGGT	TTCTGTTTTA	CAAGACGCTA	360
	CTACTGTGTC	TTTACATGGC	ATATGCGTTC	TACCGATACT	TCCAATACCA	GTACAACAGG	420
	CTGCGTATCA	AAC TACTGAA	TC TGCCCTAC	TGCGCGTCCA	ATACCCCGCA	GCTGATCAGA	480
25	CAGGACGTGC	TAAAGTTGCA	GAAGGTCCCT	AAGCGGCTGG	CAGCGATTTT	GGCATAACAAG	540
	TCTGAAGGGG	AGGTGCGCGG	TGGCGTCCAC	GGCTTGATAA	ACGACGGAAG	CAACGTANTA	600
	TGCTGGACTG	TGTCTGCGGG	CATCAAGCAC	CTGTGCGTTT	ATGATCATGA	CGGGGTGCTC	660
	AAGGCCAACG	TGCACCAGTT	CCGCCAGGGC	GTGTACGATA	CCTGGCGCGC	TACTACGGCC	720

CAACAA

1514RP

	GATCTGCGTG	TATATTTGGA	TGTATATGGA	CTTCACACTT	TGGGAAGCAA	TGGAAGTCTGA	60
	AAGCTGGTTG	ACCACTCTGC	TGTATTTCTG	TAGTCTTTCT	GAAACGACGG	TAAGAAAATT	120
35	AACCTTGAGC	GGCGATAGGG	AAGATGCAAC	TTTAAATTTT	TCTACTTGGT	TACTCAAATA	180
	CTGATATAAT	AATGCAGCCT	CAAATATGCT	GTGGAAAACA	CCACTTTTCG	CGTTCCGGAAC	240
	ATTGGGTGGG	ATTTGCGATA	CCTGATTGGA	GATCGGGAAC	AAACTCGACG	TAGTAGCCAG	300
	TAACGTGTAG	GAAATATACT	TTAAAACGTC	GGCCTCGGGC	ACCATGTTGC	TGTAGTATGG	360
	GTTAGACAGA	TATGCCAATG	GAGTATCGTG	CTGCTGCGGC	CGCTTGGGGA	CCGGGCCGCG	420
	GTATGCAGAG	GTTACCGCCG	ACCGGCGCTC	TGAAAGCCGC	TCCACATTCT	CGAACGACTC	480
40	TGCATAGACA	CTAACCGCCC	TGCACGGCGT	CATCAGCGAG	TTGTGCCGTT	GCAGCGTGCG	540
	GTTCGTAAGA	TATCCAGACG	CGGTGCGCCT	GTGTGCGAAG	GGCGTGCTCT	CCTGCGGCAC	600
	GCTGTTTACG	ACCGTCAGGT	ACTTCAGCAC	CTGCTCCTTG	CTACCGAAAC	TCTCCAGCAC	660
	TTTCACGAAC	ATCTCGAACT	TCCCCCACTG	CTGCGTCTGC	TCCGGCGTCC	GCACCATCTC	720

CGCCCGGTAC ATGCTC

1514UP

	GATCTCCACC	GCGTCCAGCA	CCACGATCCG	GTCACCGTCC	CACCGCGTCA	TGCGCACTGT	60
	CCGCGCGACG	CTTTCGAAAA	CCGCCCCGTC	CTCCGCCGTC	GCAGCCCTTC	CCCCGCTGTC	120
50	GTGCGTCCGG	TGCTCGGCCT	CCCGCGACCG	CAGCGTCGCG	ACCACCCGCT	CTATATTCAC	180
	GCCCGCGGGC	TTGACGCTGT	CGCGCTTGAT	GCCAGGCTGT	GTGGGTTTCT	CTCCACCAC	240
	CTCCAGGCTC	TTGATAAACG	TCGTCTTAAT	CACCTTAAAG	CTCGCAGTAT	GGCCCTTGCG	300
	CCCACATAGT	AGCGTCAGCG	TATGGTTTCC	CGAATCGTAC	GCGTATATCT	TGCCCTGTGT	360
	TACACCGTGC	AGGACGTTGG	TCACCCGCAC	CTTGAATCCA	AGGATATGTT	CCAAGTTGAT	420
	GCTCATTTCT	CTCAGTTCCA	AGCCCCACAC	GCTATCCTGG	CCACCTTAGA	ATGCCACGCC	480
55	TGCTCCCGCT	CCACTGGCTG	ATCCCAATC	GTTTCAAGTT	CGGTGTGGGT	ATTTTCTTGA	540
	AGTGCGCGTC	TAGCGATGAA	GTAAGATTTT	CTATGTATTA	CTATGTGCGA	CAAAGGTTAG	600

TTCCAATAGT GCTTGCAACT ATCAGGTGCT GTGGAGTTCC CAAGCAGACG AGTTGCTGAT
AGTGGAGCCG ATAGAGAATC CGATAAAGAT TATTCCCGAA AATCTAAGGA CAGGTGG

660

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1515RP

	GATCCTTCGC	CGCGTGGTCA	AAGCCCGGAT	AGGATATCAC	AGGGCACTGT	GCAAAGGTAT	60
	CGCATATTGT	TTCCATGAGC	GTTTCGCCCT	TCGGTCTCTT	CGCCGGCTTC	CACTTGCAAG	120
5	TGGCCGCCAG	GAGCTTACAG	AGCTGCAGAT	AGTTATTACT	GTCAAACGTC	CAGGGTGCCC	180
	CGCGCCGTTT	GTGCGCCGCA	GCAGCATCCG	CGAAGTGGTC	CAGGTGCGCC	CGCGACAGAT	240
	GGAACCCGTC	CATGGGCACC	ACCTCAGCTA	TATTGACCGA	TGACGCTGGA	TCCAGGGCTT	300
	CGCTCGCGAT	GCGCACCAGAA	TTGGGGAGCC	CGCCGCGCCC	GAAGATAACT	GCGGTCCCAT	360
	CCCCATCGTA	GAACCTGTGT	GGCTTGAACC	CCGGGTCTTC	CACGTGCGCG	AAGAACCCCC	420
	GTGCGCGCTC	CTCGACCAGG	GCGCCTGACG	CAACCGGCAC	AGTCTCGTCC	AGGCTTTCCG	480
10	CAGCAATGCC	CGCGGAAATC	CTCAATCCAC	CCCTTCGTGC	CTTCAGGTGA	CTCTGGAAAT	540
	CCTGGTTTCA	GTCCCGCTTA	AGCCTCTGCG	CCATCGTAGA	CTTGCCGGAC	CCAGGATGCC	600
	CCACCACCAC	TACAGCCACC	CGATAGTTGC	TCTCGATATT	CTGAGCAAGG	AGATCCCACA	660
	CTCGCTTCTT	TAAGTCTTCG	TAGTCCATGC	CGCTTGCTGT	GTATGCCTGC	TGGT	

1515UP

	GATCTAACGC	CGGCTGTCTC	CTCCAAGCGT	GTTCTGCGCT	CTCTTATATC	TGTATCTGGT	60
	AGCTTCAGCA	TTAAAAAAC	GTCCAGAGAA	TTGGCTTTTC	GCCATGCTCG	AAAGCTCACT	120
	AGTCGGAGCG	CAGCATCTAG	GACACCAGTA	GGATGCAGAC	AGTGTTTAGG	CCATTGAGAA	180
20	GTGTGATTCT	GACGCCCGCT	CGAGGCCTGG	CGCGGTCCAG	CAGGCTGCAG	TCGGGACACA	240
	ACAAGTGGTC	GACGATCAAG	CACGATAAAG	CGAAGAACGA	TGCTGAGCGG	AACAGGCTTT	300
	TCACGCGGAT	GGCCAACAG	ATATCGGTGG	CAGTCAAGCA	GGGCGGGTCT	GCCGACCCGA	360
	CGCTGAACCT	GCGACTGGCG	GCGGCGATAG	AAGCGGCTC	CAAGGCCAAT	GTGACCAAGA	420
	AAGTGATCGA	AAACGCAATC	CGCAAGGGCG	TCGGCGAGGG	TGGGGCGCGC	GACAACGCCG	480
	AGGCATGCAT	GTACGAGGCG	ATACGGCCCG	GTGGCGTGGC	GTTTGTGCTG	GAGGCCTCAC	540
25	CGACAACAAG	AATCGGACCG	TGACCTGGTA	CGCGCCGCGT	TCAACAAGCA	TGGCGGCAAC	600
	ATGTGCCCCG	CTCAGTACTT	CTTCGAGCGC	CGCGGGTACG	TGGCAATCCA	GCCACCGGCC	660
	TCGTGCGAGA	GTTACAACGC	GGTGTTTGAG	GTTGTGTCCG	AGGTGAGGGG	CGTAGAAGAA	720
	CTGGA						

1516RP

	GATCCGACCT	TTGGTGGCTT	GGCTCGAGTC	TTTCTTCAAT	TTAAACCCCT	GTTCAACAGC	60
	AGATGAAATT	GTTAGTCTAT	CGAGTCCACG	TAAAAGACAA	TTTTCGACGC	TTGAGATGAA	120
	GGGTACGGCC	TCTCCCGACA	AGCGGCATCG	CCTGCACCGA	AAAGTATCCG	GTCACCTCTT	180
	CATCATACGG	TACCTTCACT	ATCTCTTTCC	GCCGGAACCT	AAATACAGAA	ACATACCTTT	240
35	AACATCCTTA	TTCTGTTTTAT	CTTTTCCTGA	TTTCGACTGG	AATGTAGCGG	CGAAAGGGAT	300
	CTGTTTTCAA	AATTGGAAAC	GCTTACCACC	TCACCAACAC	ACCAGGACTT	TATTTCTGTAG	360
	AAACAGGCCA	TCGGCCTGAA	CAACAGTCAC	TAGAAAACGG	GCACCAAGGC	AGCTTGGCAA	420
	CGAGAGGAGG	CCCTAGGGCT	CAATGCGTTG	ATAGTAAAGT	ATGTACACGA	GCTTTGTCTC	480
	GTGCGTAGTG	AACGACGCT	TGCACTCCGA	CACGTACGAA	TCTGAGATAC	ACCACCACGG	540
	ACTTCGTGGC	GTGCGACGTA	AAGCCTTCAG	TTTGCGGGGA	CGGCCTGGGG	ACGGGGGAGT	600
40	CTCGGCTGAC	AGCCGAAGAT	ACGCCGATGA	GCTCGCAGAG	CTGGCTCCGG	AGCTGTCTCT	660
		GCGTCCGGCT	TGGAGAC				

1516UP

	GATCATTAAC	GAAATCTTGT	TGGTTGATTA	CGATGTTTGA	TGGGAAGATA	TAGCTGGTCT	60
	TACAATAGCA	AAGAAGTGTT	TGAAGGAAAC	AGTTGTTTAC	CCATTTTTCG	GGCCAGACCT	120
	TTTTTCGGGGT	CTCCGGGAAC	CTATCTCCGG	GATGTTGTTA	TTTGGACCTC	CAGGAACAGG	180
	TAAAACGATG	ATTGCCAGGG	CCGTGCGGAC	TGAATCGAAT	TCAACTTTCT	TTTGATCAG	240
	TGCTTCTCT	TTGTTATCGA	AATACTTGGG	TGAGTCGGAA	AAACTTGTCA	AGGCCTTATT	300
50	TTACCTAGCC	AAACGGCTTT	CCCTTCAAT	TATATTCAAT	GACGAAATCG	ACTCTCTACT	360
	AACTAGCCGT	TCAGATAAAT	AGAACGAATC	ATCCAGAAGG	ATTAAGACGG	AGCTCTTGGT	420
	CCAATGGTCC	TCCCTAACGA	GCGCCACGGC	TAAGGAAACA	AGAGAAGGCG	AAGAGGCCAG	480
	ACGCGTTCTT	GTCCTGGCCG	CAACCAACTT	ACCGTGGGCG	ATAGATGATG	CTGCTATTAG	540
	ACGTTTTTCA	CGGCGTCTAT	ACATTCCATT	GCCGGAATAC	GAAACAAGAC	TGTATCATTT	600
	GAAGAAGCTT	ATGGCCCTTC	AAAAGAATGA	ACTTTCTGAA	TCTGACTTTC	AACTCATTCG	660
55	TCGCATGACT	GAGGGCTACT	CGGGATCTGA	CATAACTGCT	CTTGCCAAAA	GAAGCAGCTA	720

TGGA

1517RP

	GATCAATGAA	AAACATGCAT	ACGATTTTCAT	GAAGCAAAAT	TTGGCTTGGA	ATATTGCCAA	60
5	CTCTATTTCAC	AAAACAGAAA	TACTAAAGGA	AGAGAACTTC	ACGTTATTAT	CCAAAGCCCA	120
	AAGAGATGAC	GTGAAAGGAA	GAGAAGCGGA	GTTATTACTT	CCAAGCGAAT	TAAATCAATT	180
	AAAGATGGTC	AATGAGCGTG	AGCTGAACGG	CCATGCAAGA	AAAAAAGAC	TACTATCCAT	240
	GTGGGAAAGTC	TTCAAAATGC	TTTAGGTTCT	GCATTATTAT	ATACACATTG	TAGATACAAC	300
	TCGAAACTAA	TGCATTTTCAC	GTCAGCAGTC	TAAAAGTGGT	CATGCAGTAA	CTTCACACCT	360
	TC'TTTATTCC	AAGGACAAAAG	GTATA'TTCCC	AGCTGTGTCT	TAGACAGTGT	CCCCAGCTTG	420
10	AAACATGTGT	TACTCAAAATG	GTTGGCAGTA	ACCTTACATT	GCCCAGAATG	GGTGATGCCG	480
	TTAGAAGTGG	TATAATCCAA	CTGCTTCCAA	ACATCAGCGT	TATTAGGTGT	AAAGAAAGCG	540
	GATCTCTGCC	ACAGAAATTTT	AGATGGAGCG	CGCAAATTCA	GTGCTCTGGA	AATCTCATCC	600
	ATGACAAGTG	GAACATCTTT	GTATT'TGTCC	GACAGGATGC	CTTTTAATGG	TAGGTTAGCT	660
	AAATCTTTCA	TCAAAATTGA	AAGTGGTCCA	CCTTGTTCCT	CATGAGACAA		

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1517UP

	GATCCTCAAA	ACTACAGAGC	GAAGTTGAAA	AAGATCATAT	TTTGATAGAG	CGTAAGCAGT	60
	GGGATGAAGC	ATACGCTCTT	CTCAAAGGTG	TTGTGGATAG	ACATCCACAT	CTATATGATG	120
20	CACATTCAGC	ATTCCGGTTGG	TGTCAGCTGC	AGTTGGGCGA	CACTGAAAGC	GCTTTAGAAA	180
	CATTCCAGCT	TATTATTAAAT	AATGTGAAGA	GCAGCGACGG	CACGTCGTCT	CAGTTCAATTA	240
	GCTCAGTACA	CTGGCGAACC	GCACAAACAC	TTATTACTAA	GCAGCAGCAT	GAAGATCCCTT	300
	CAGGTAATGA	GTTTATAAAG	ATTGCTTTCC	AGCATCTGGT	ACAATCCCTG	AAGATAACCG	360
	ATCTTTTTTGC	TCCAGGTTAT	TCCCTTCTTG	GACACATTTA	CGAAGTGTAT	TTTCAAGACC	420
	TGACTCGCGC	ATTTAGGTGT	TACGTTAAAG	CCTTTGAGCT	AGATGCCCGC	GACCTCGTCG	480
25	CTGCTAAATA	CATGGTGGAA	TACTATAGTG	ACCTGTGCAA	TTGGCAGGCG	GCGGGCAACA	540
	TCTGTGACCG	TGTAATCAAG	AATGATATGC	ATCTCAATTTC	CGTCAACTGG	CCGTACAGAG	600
	TTCTGGGTGT	TTATTATTTG	GAGCTTCAAC	AGGAGGCTGA	ATCGATCGAA	TGGTTCCAAT	660
	CC						

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1519RP

5	GATCAGACTG	AACCCATATA	TCAGCGAGGT	ATGGTACGAT	TTGGGCACTT	TGTATGAGAC	60
	ATGCAACAAT	CAGCTCAGCG	ATGCCCTGGA	TGCATATAAA	CAAGCTGTTC	GCTTAGATCC	120
	GAATAACGTC	CACATAAGGG	AGAGACTAGA	GGCTTTGACT	GCCCAGCTAG	CCAACCCAGG	180
	GGCCAGCAG	CCTCAGCAGC	AGCCTCAACA	GCAACAGATG	CAACAGCCTA	GAGGGCCAGC	240
	ACCCATTATG	TTGCAGCCAA	CATTGCAGCA	GCAAGACCAA	ACAAATCCGT	TGAATAACAA	300
	ACCTGCGTTC	TACCGGTCTT	CTCCCCACGG	AGTTGCGGTT	GCCGGAACAG	AGTCCGCAGG	360
	CCACACACCA	ATGTCAGGAC	GGCCTCAGCC	GTTGCAGCAG	TTGAACAATA	ACGGAAGTAT	420
10	CCTGGAACCG	TCATTGTTGC	CGCAAAAGAG	GCCTATGGAG	GGTGGAAATGG	ATACATTGGT	480
	AAATGCCATT	TCGCAGCAGG	AGTTGCAGCA	ACATCAGAAG	AAACATATGC	CTTCTCAGAA	540
	CCATCCTAGT	TTGGCCCTGG	CTACAGGACA	GCCGCAGCAG	TTACCACCCG	ATGCCGCTCC	600
	CATAATACCG	CCCGAAAAGA	AAGGTGCGCC	TCTCCCCCAG	TTTCAGAAAA	CTGAACCAGA	660
	GCATGCGGCA	AAAAGACTGA	AGCCCGAGCA	GAATAACGT			

1519UP

20	GATCAGGTAT	CGGCCAACAT	ATCGCGTCTG	TCGATAGCGT	CGAAGATTAT	CGTGATAGAT	60
	ATAGACTATG	AAGTGACGGA	CGGCAAGGTG	ATCGATGTTA	AGCTGGTGCT	GGCAAGCAAC	120
	TTGCAACAAT	TTGACTACTT	CAATGGCGAG	GCCAACATCC	TGCACCGGTC	ACTTACCACG	180
	TATAGCGACC	TGCACGAGTT	CCACCACAAC	CTGAAGTTCT	TAACCCCTACT	CGACGCGTGC	240
	TCAAGCATCG	ATATCGAGTC	CAATGTGTGC	CAATTTCGATT	TGTTTCGAGTA	TTACTCGATG	300
	CTGCCGCGAGT	ACATGCAGAG	CTACCTGGAC	GACAATGGCG	CGCAGCTCAC	GGTGCAGACG	360
	AACCTGAACG	ACCGTTTTTG	GATCTACTTG	CTCGACCATT	CCGAAAAGAA	GGTCGCCAAG	420
	CTGACATTTG	CGCTACGCA	GGACCGGAAC	CAGCGGTATT	ACGAATACAA	ATACTCGAGC	480
25	GAAACGAAGG	AGTGGATCAA	CCAGTCGGCC	GAGTCCTATA	CGACCGGCAT	CACGCTGGTG	540
	TTGGAACCTC	TCGGTGACCC	TCCGACGTAC	CTGCCTAAGG	ATAGTTTGCC	GCCAGAACAC	600
	CCTGATGAGG	GCTTCACGAG	TGCTTCTGCG	TCCGAGCTGC	AGCGCCGCTT	TGCATTCAAG	660
	TGTCAAAATC	CACGAGTCAC	CCTCGTAAAT	GACTTC			

1520RP

35	GATCTTCTGG	ACGCTTTCCT	TGAGTTCGTT	CATCTTGCCA	AGCACGTCGA	CGTTGGGGTT	60
	GCCCGCAAAA	GAGTTGAGCA	TCGGCCCCAAG	GCGGCCTGCA	ATGGCGCCAA	ACTTGTCTAG	120
	CACCTTCGTG	AGCGTAGTTG	GGAGCTGCAA	AAAGCGCAAC	GTATGGCCCCG	TGGGCGCGGT	180
	GTCAAAGATC	ACCGTGTCGA	AGTGCTCGCC	GTCGCCCTGC	TCCTGCTTCT	TGATGTGTTT	240
	CATCACCTCC	ATGAACGAAA	GCGCCTCGTC	GATGCCCGGA	ATCGACCCCG	TGAGATCTGC	300
	GAGTGCGCCG	CCCTGTAGCA	AGCCCGAGAG	CCCGTCATCA	TCGCGCGCGT	TCGCGATCGC	360
	CATGTCGTTT	ACGTCCTTCA	ACGCCGCCGA	AGGGTCGATT	TCCATACACG	ACAAGTTGTC	420
	CATGCCCCGT	ACCTTGCGCG	CGTCCTTCCC	AAACTTCTCG	TTGAACGCAT	CGCTAAGGTT	480
	ATGCGCAGGA	TCCGTCGAGA	TCAAAAGAAA	CTGCTTAGTG	GGCTGCGCAA	GCGCCATCTG	540
	GATGGCAATG	GAGCACGAAG	ACGTGGTCTT	GCCCACACCG	CCCTTCCCGC	CGACGAAAAT	600
40	CCACTTGTGT	GTTGTAGAGT	TGATCAACGA	GCGCAAAGAG	GCCTCTGGTG	TAATATCAGT	660
	CATGGTTGGT	GTACCGCGTG	AATCTGAGAG	TGCAGGCGAT	CTGAGATCTT		

1520UP

45	GATCAAACAG	TAATGACTTT	GTAAACGGTT	TTGAAGTACT	GCACGAGCTG	CGACTCCTCA	60
	CTGCCCTGTG	GCGCCACAAG	CGCCGAAATC	ACAGCAACTT	CGCTTTCAAA	CTGAATGGCC	120
	TCCTGCATGT	TCCGTGGGAA	CCCAAGTAGC	ACGACGCTGT	CCCCAGCCTG	GCACACCTCC	180
	TTGAGATAGC	GGCCCATCAA	CGCAACCAGC	GCACCTTTGG	GCAGGTGCGC	CGAGTAGTCA	240
	TCGCCATGCA	CAGCATGCAA	CTCCTCTAAT	AGCGCGTGTT	ATTTGTCTGT	CTCGTCGGTG	300
	CGGAACCGCT	CCAGCGCCTG	CTGCACGCGT	ACGGCGCGGG	CCCCCGCTGG	CGCCCGGATC	360
50	TTCTCTACGG	GCACATCGGC	AAGCACCAGC	AGCACCTCCA	GCTCATCTGG	CTTGAACACC	420
	GTCAACCGCC	GCCTCAGGCC	GGAGCGGACC	TTCTCGAACT	CCGCTTCGCT	GAATCTGTGC	480
	TGCGGCTTGC	TCCGGTCAAT	CGACTTCGCC	GCCTGCACGA	AGATGAGCGT	GCTGACCACC	540
	GCAACGCCAA	CCATCTTCCA	CGCGCTAGGT	AGATCTTCCG	AACCAGGGGC	CTTGCTGGCG	600
	TATGGCCGCA	AAAGTCCCTG	CTGACGCCGC	AGAAGGAACA	ATCTAGGCTT	ACAAGTCTGC	660
55	GAAACATTTG	TCCTGCGAGT	TAGCC				

1521RP

	GATCGAATCT	KGTCTGAGGS	TCTTCCACGA	WTTGCAATGC	AATCTCCGGA	TATCCGGCCT	60
	TCTGTAGATA	CGAGATGATG	TTCTGGCCCA	CAAGGTGGGA	CGTACGAATG	AGACGCAAGA	120
5	CTTCAGGGAA	GTTCTTGTTC	ACCAAAGCTT	TCTTAAAGCG	GTAATCGGTT	GGGTCAATGG	180
	TCAATATCTC	AATATCGCCG	TCTCTGTTC	AAGCATATAT	ATGCTTGCCA	TGAGCTTTGG	240
	TAATGTATAG	GGTCTTGCTC	AAAGTTTTTA	TGATCCCGCT	GTCACCATTC	AATAGGCAGT	300
	ACTWAATATG	GTTCAAAGTA	GACAAGAGCA	GAACACCAGT	TTTCATCCAC	GCCGCTGACT	360
	TGATCCTGAT	CGTCTCATGG	TTAGACGTAG	TAATCTCCAA	CTTCCTAGTA	GCAATGGTCA	420
	GCGTGTGTTT	ACTCATTAAA	GCAACGTATT	GCCCATCTGG	GGACCAGACT	GCAATTTTAA	480
10	CCATCTTCAG	AGCTACCTCC	GCCAAATTTT	TCCCTGCTG	CACGTGGAAC	AAGACTACCG	540
	CCTTTGGTTT	CAAGATGAGT	ACCGCACCAG	GGCTCCATA	GACAATGTCT	TTAACAGTTC	600
	CTTCTATCTT	GATCGATTTG	GTTACCTTGT	TGTCCAACCC	ACGTAATTCA	AGAGATTCGG	660
	ACGCAGAGTT	GTAGACAGCG	TTACCTATGC	CGAGCGACAA	AAGTCGCAAA	GCTTCCCTTA	720
	TC						

1521UP

	GATCCACTTC	CCAGATTACA	TGATAACATC	GAAGCCGAAG	GTCGCAAGGG	AAATGTTGGA	60
	GCAGTATGAC	TTTATWCATA	GCGGCTTCAT	CAGCGTAGAC	GGCAAATCAG	AAAGCCTCAT	120
20	CTTGGGCATG	CCGAAGAAGA	CCACCGGCAG	TTTGATCAGC	TCATCGAAAG	TTTTCTCTATA	180
	TGGCAGAGCA	GCCGTCACCA	TGAAGACAAG	CAGAGGCCCA	GGCGTCATCA	CCGCAATTGT	240
	ATTCAATGTC	TCTACCCAGG	ACGAGATAGA	CTACGAGTTC	GTGGGGAGCG	AGCTCCATAC	300
	TGTCCAGACG	AACTACTACT	ACCAGGGCGA	GCTCAACCAC	TCGAGAATGC	GCCGCCATTTC	360
	GCTACCCTCC	AACAGCCACG	AGGAGTACCA	CATATACGAG	GTTGACTGGG	ATGCCGAACG	420
	CATCCACTGG	ATGGTTCGACG	GCGAGATAGT	GCGCACCTTG	TTCAAGCGCG	ACACCTGGGA	480
25	CCCGGTCCAC	AAAATATACA	AGTATCCACA	AACGCCCATG	ATGCTCCAGA	TTTCCCTCTG	540
	GCCCGCGGGC	ACCCCGGATG	CGCCGCAGGG	CACCATC			

1522RP

30	GATCAAAAGC	GAACAGCGCA	CTTATGTCTT	GCCCAACCGA	CGCGTGCTCC	TGAATACCCA	60
	ACGAGCACTC	CCTGGCCTGC	TATCTGCGCG	TATTCTGTCA	GAACGATCGC	CGCTAGAAAG	120
	TTACCAAGCG	CGTCACACCT	GTATTCCTCG	GCTTCTCTCT	CGGCCTTCGA	TGTGCTGGCA	180
	AGTAGTTCTC	CACGTTCTGC	AGCTGCCACT	GGAAACGTGC	AAACCAAAAC	AAACCTGACA	240
	CCACTTCTGT	CTCTCGATCG	CGTCCAGCCT	CCAGAACTCC	CAGCGCACAG	ATTTTGACTA	300
	TAGCAACCCC	CGCGACTAGC	ACTCAAGAAC	TTTCAATTTT	CGCTTGAGCC	CGACCTTGTT	360
35	TTTCGAAGAT	TCTGACCTAT	CCTCCTATCG	ACGTCAAGGA	CACAAATCAC	ACTATAGTAC	420
	CTCGAACAAC	AGTACAGAA	AGAAAACCCAG	CTGCTCCAGC	CAAAATTCAC	AAGTCCCGTT	480
	AGCTGCTAAG	GCCAATTGGT	GATACTCAGT	CTTTAATCTT	TACCCAATTG	GGAAACTTCA	540
	CCAAGGAGAG	TCTTGCGTCT	TAAGGTTTGG	CAGTTTGGTT	TAAAAATTTT	CTTGCACGAA	600
	ATGTCAGAA	GTCTGGGTTT	CCCTTGTCGG	TCACGTGGGT	GTCGGTCAAG	TGGGTGCTAA	660
	TCACGTGACA	CGTGGATGAC	GACTGAGGCG	GAAAAATTGC	AGGTT		

1522UP

45	GATCGACAAT	ATTCCCCCAC	CAGGCGCAAG	AATCGAGTGC	ACACAGGCCA	CGCGCGCATC	60
	CGGGCTCGGA	TGGCGGGGCC	TGGGCTGCAG	TGGGCGGCTG	GGGGCGGAAG	CACACTACCA	120
	CAGTGTGCTG	TGGTGCGGCG	GGGACGCCAC	GCCGCGCAGC	TGCGGGCTGC	ATTCCAGCCA	180
	CGCATGCACG	AAGAGCCGGG	TGACACTGCC	ACCGCTGGCG	TCGCTGCTGC	AGTCCAGCGG	240
	CTACATGGGG	TTCAACAACG	AGCCGCGGGC	CGTCACGCGC	TCGTGTCTAG	GGGCGACACA	300
	TCCCGAAGGC	CATTACGGCA	GGGACATGCT	GAGCAGCGCG	GTGGGGCAGC	CCGCGTGTTA	360
	CGTGGGGCGC	CAGAGCCCGT	TGCTACCGCT	GGGCGACGCG	ATTGCGCCCG	CGCTCCACC	420
	CAAGCCATCG	CATCGCTGCG	TCGCGGGGAA	CGCGCAGCTG	CGCGGGCCAG	TGCTGCCCAT	480
50	CGTGGGGCCC	GCGGCGTCCC	ACGCTACGAA	ACGAACAAGA	CATGCCTCGT	TTGTGGCAGA	540
	CGATGTACCC	GCTCCAGCAC	GCTCAAGAAC	ACATGCTCAT	CCACACGGGC	GAACGTGTTT	600
	TCAGTGCAGT	TGGCCCGGGT	GCTCCAAGCG	GTTCAACGTC	AGGAGCAATA	TGAACCGACA	660
	TGTGAACCTC	CACAAGCGCC	CGCTGATGAA	GGAAAGCAAG	AAGAAATCCA	GTTCTCCC	

1523RP

	GATCTTATCT	AAACCGCTCC	GCGATGATGC	TTTGGTAGCA	ACGGAAGCCC	GCATTTCAAA	60
	GTCAAATCA	GCGGAAGCTT	GGATAGATGA	GAAAATCACA	GGTGTACAT	GGCGCGAGAG	120
5	CTGAATTGGA	TTCACCGCTT	TGCTATCAGT	GGGTWAGAGG	CGTTCACTGG	GCTGTTCTGA	180
	ATTTGAACTT	CTGGAGCTAT	WCGAGGGGTT	ATGAGCAAGT	CCAAGTTCCC	GCGTGA AAAAG	240
	CTGATCCTGG	TAATACTCGG	TGTAATCCAC	GCTTTTCTGC	CAGCAAAAAG	CTGGCGAGTT	300
	TGGAATCTTT	CCTTTATCGG	CGACGTCCGT	GCGTACATGG	CGTTCAATGG	TATTTGCTGA	360
	TGTAACGTG	GGGAGAAGTC	GTAGGGAATG	TCTAGATAAG	GTTGACGCTG	AAAAGCTATT	420
	ACGTTGCAAT	AGCTGCGGTT	GAGAATGGTG	TACTTGGGCA	CAGCAACCTG	CTGCGCTGCA	480
10	TCTGGGTGAG	CTATTAAAAA	TCTCGGCCAC	CGAATAGAAG	AGCATCTTTG	GGTGAGCGCG	540
	ATTCAAGTTCC	ATGAGATCAA	CAAAGGATAA	AATCCGGAGG	TTATCAAGGG	AGAATTTGTT	600
	ATCATACAAG	AGCCAATCAT	CACTGCAGTT	GGCTATATTT	GGATTATTGT	GATATTGCCT	660
	CACAGCAGTG	TTTATCCGGT	CTTTTTCGCA	GTCATATACC	ACAATGGATT	GT	

1523UP

	GATCGACAGA	ATGAGCAGAG	CCATTCTGAG	AAAGCAAACA	CGGCCCATTTG	CGGTTCTGGG	60
	ATCCCTGCCA	CAGAGCGAAA	TGGGCCCAGA	AGGTTTGTAC	TCGCCGATCA	AGGATCATCT	120
	GGCCTTAGCG	CCATGCGACG	TAGTAAAAGG	ATGGCATGGA	TGCTGGTCCG	AAATGCGGTG	180
20	CGACTGGCGC	AAGACATGGA	TTTTATCAAC	ACCAGCTCCA	AGATATTTCGT	CGCAACACAC	240
	ACTTCGGAGA	CGAATTGCGC	AATGAACATG	GGTCAGAACA	GTACATTATC	CCATTCTCTG	300
	ATGAACGCAA	ATATTATAGG	CTCAGAGTCA	AGCACGGCCA	TTAGCAATCC	ACCTATGCCA	360
	TCTGAACTG	AGGAACGTTA	CAAAAGTGTT	TTACAGAGAC	TCGGTAAGCA	TGTCCCTCGG	420
	GGTAGAGGCC	TATCTCAGCT	TTATAATGAG	TTTTTGGAGG	ACGAGCGCAT	CCTCTACGGC	480
	TTAGGTGGTG	GAAGTGAATA	TGTTGAAGCA	TACTGCGATA	GTTTGGATCA	AACAAAAAAC	540
25	AATGTGAGCA	TCGAGACTGC	GTATGAATCT	TCTTTGCTAG	AGCGCGGGGG	CCAGCAGGTT	600
	TTTCTGTCTT	TCGCCCAACG	CCCGAAGATA	GAGCTACTGA	GGATCATGT		

1524RP

	GATCTTTTGA	AACAAGTGAA	TTTCTGGAAA	TCGAAGTGCG	GTGACTTGGA	CAAAATTAAG	60
	CAGGACTTAC	TGGCCAACAT	GGCGACGAAA	GAGACGGACT	TCAACAATCG	ATGCACCGAC	120
	TATGAACGTA	ATATAGTTGA	ACTTCAGCGT	CAACTATCAG	AAAAGTGCGA	CGCTACAAAC	180
	GAACGCTCTG	TCACTTCAAC	CTCTGCCGAT	GTACCTGGAG	AAACCAAAGA	ATATATTGAG	240
	TCTCTCAAGG	AAGTCAACCG	TAGACTGGAA	GAAGATATGT	TTGCTGTTTT	TGCGGGGAAC	300
	ATAGTGTATC	TGGAGAACAT	CGGCCTGCTT	CTTTCTAGAG	GCCCTGACAA	CAAGTTACAG	360
35	ATTATACGCG	TTAAAGGTTT	AAGGAAAAAC	ATAGATGATA	GTATAATAAA	GGACAGCAGC	420
	CCTGTAAATA	ATTCACATAT	GGTGAAGAGC	ACAGTTTTCC	AGGATGTGAA	GAACCTATTT	480
	GACGAGCTTC	AACTGAGCCA	AGGTGTTAAC	GACCAACTCC	ATTTTGTTAG	TGAGCTGGAA	540
	CGCTTTTATG	AAGAGGATCT	ATTTCCAAC	TCCGTGATCA	AGAGGTTTAC	CGATGTAGAG	600
	AACCTGGCTA	AGAGCTCAGA	AAGGAAAAATA	AGGCTAAAAA	AAGCGTATTG	AAAGACACCA	660

1524UP

	GATCTATCGA	AAGTGTTGAAG	CTCCTAGACA	AGTTTCGTCCA	TCCCAAAACC	GGGAGAACC	60
	CTTTGTGCTA	CCGTATCAAC	TACCAAGTCCA	TGGACAGGAC	TGTTACCAAT	GCCGAGGTCA	120
	ATGTCTTACA	AGAGCAGGTC	AGTCGGGAAC	TAGTCAGGCT	TTACAACGTT	CAATTGAGAT	180
	AGCCCAATCA	GGCCGAGACT	AATAAACTTG	TATATACAGC	TTTGCGGACA	TCGCACCCAT	240
	GTAACGTATA	GTATGATATC	TGCTTACTCA	TATCGCACCT	GAATGCTAGC	AGACTTCGAG	300
	AAATGCCTTA	ATACGCAGCA	TATCCGATAA	CTAGTGCCTA	AAGCCAAGTT	CTTGGATCTT	360
	CACAGCTAAC	CGTTTTTCTT	TGCTCCTGAT	GGCAGCTACA	AGAATAGCAA	TCCTTTATGG	420
50	ATCTGAAACC	GGTACTGCAC	AGGATTTTCG	TAATATACTG	TCCCACCAAC	TACGTCGTTT	480
	TCATTACAAG	CATACGGTGT	GCTCTATTGG	AGAATATAGT	GCCCAGAATA	TCCTCGCATG	540
	TCAGTACCTA	TTTGTCAATT	GCTCCACCAC	CGGGCAGGGT	GCGCTGCCGC	AAAAAGCGCG	600
	GCAGTCTCCG	CAGGGCAAAG	TGGAAGGTAC	ACCATGGAGT	GTGCTCAAAA	GAAGCTCTCT	660
	CCCACCAACT	C					

1525RP

	GATCTTCTCT	CGCTGGAAC	GGTGATGCGT	CCAAAATTTT	AACTTAACAA	TTTTTCACCT	60
	TGACCTCGCC	AAGCATCTAT	ATCACGTGAT	TCCATCTGAC	CAACCTCATC	CCAAATGCAG	120
5	GCCATTGGCT	GCTGCATTAA	CGGTCTCAGT	GCCCCGGCTAG	AGAACTAGCG	TTACGCTTTG	180
	GGGTTTACTA	GCAAGTGGCC	GTGCCGTGGG	ATTTCGCAATG	TGGGCGCGCA	CCTTATCCAC	240
	GCGACACAGA	AGTGGGTATT	TTCGCTTGTT	TACATAGATG	TCCAAAAACA	GTACGCGCAA	300
	AGCACCAAGC	AAGCTTCAGC	AAGACTCAGG	GAGGTGTTAG	AGGCGATAAT	CCAATCTGTG	360
	CTGAATGGAG	CAGGCGACGG	GACCAAAGTG	GATATTTGCA	GGCGAAAGTG	AGACGATGGC	420
	AGCGCAAGAG	GGCAATGGAG	TAAACGGGGA	CCTGGACGGC	GGCATGCAGA	AGACGTTCAA	480
10	CCCCGTCAAG	CCGCTGGACT	TCAACGTGAA	TTTGGCGGTT	TACCGGGGCA	AGGCGGGGCT	540
	CGGGGAGACC	CTGAACTGGC	GCGCGGCGGG	GCAAAAGCTC	AGGGTCGGAG	GAGGAGACAG	600
	ATAGCGAAGC	GAGCGGGAGC	TCCAGCCGGG	GGCGGGGGAG	TGCAGACACG	TCTAGTCTGG	660
	AGCCCCCGAA	GGTGGACCGG	TCGTTGACGC	CTTGGCGGCT	GAAGTCGTGC	CC	

1525UP

	GATCATCGCG	ATTTTCGGTG	GCGTTGATGA	GAAAGGCCCT	CACTTATACA	TGCTTGAACC	60
	AAGTGGCGCT	TACTGGGGTT	ATAGAGGAGC	CGCTGCCGGA	AAGGGCAGAC	MAGCCGCTAA	120
	AGCGGAGCTG	GAGAACTGA	TTGGGAACGA	TAAGTCAGAG	CTGTCAGCTA	GGGATGCAGT	180
20	GAAAGAAGCG	GCTCGGATCA	TTCAGTGCGC	CCATGAGGAT	AATAAGGAGA	AAGAATTCGA	240
	AATFGAGCTG	AGCTGGTGCT	CCGCTTCGGA	GACGGATGGC	TTGCACAAGG	AGGTACCAAA	300
	AGAGCTATTT	GATGCAGCGA	TTGAGTTTGC	GAAGAAGGAG	ACCGGTCAGG	AGAGTGATGA	360
	TGATTCAAGC	GATGACAACG	CATCTGGAGG	TGAAGAGTCC	TCAACAAAGA	AGGATGCTGA	420
	CGGTGATGTC	CAGCTTTTAT	GATAACAGCC	CGGCATTATG	TGGAGGTTCA	TTTCATGACA	480
	ATTGACGGAT	GTTACTAAGT	GTATATTAAG	TTAATCCACC	TATATAAATT	AATAACATGC	540
25	AAAGCAATTT	AGAATTTGTC	GGAAAGCAGG	TTAAAGCATG	TCTACTCTCC	TTAATCTTTT	600
	GCGAAGCTGT	ACATTTTCTT	CTCAAGTGAA	CGAATTCCTAT	CCACCGGCTG	CGTCTGATTG	660
	TAATTTCTTA	CGTTCGCGTT	CTGTGTACCA	TTTCCGCGTC	AGC		

1526RP

	GATCTGGCCG	CGACCTTGAG	AGGCGTCTGT	ACCTTCTTTT	AGCACAACTA	TTGTGGGAGC	60
	TTGGTTTCCA	AAGTTCATCC	TGAGCTCGGT	GGTCGTTTCA	ATATGGTGGG	TGATGGCCCT	120
	GTCACGGTCT	GTCAGCTTCC	TGTACCGACG	ATGACGGCAG	TTTTTGCCAC	TAGGCATTTT	180
	TTTTTTTTCAG	CTCTAAGATG	GCAGACGGCA	AGGAGAATGC	TCCAGGACAC	CGGATAGAGC	240
35	TCCAATCTCA	GCAAAACATC	GCCTACTGGC	CCATTGCTGC	TGCTGCATAA	CACTTCTATG	300
	GCTTAGTTTG	TGCACGTGGT	CGGCGCTTCA	CATGTATCT	CGTGAATTGC	GTACCGGTAC	360
	TATATTACGG	TTGTGTGGCC	GAGCGGTCTA	AGGCGCCTGA	TTCAAGTGTA	TGCTTACAGC	420
	TGTTACACAGC	TGAACACTCA	GGTATCGTAA	GATGCAGGAG	TTCGAATCTC	CTCGCAACCA	480
	ATATTTTTTGC	GGGCGTTTTT	GGGGCGCCAG	CGAAACTGAA	CCGCACACTA	TTTCGTGGTA	540
	CCGTTGGAGG	TAAACTGTTG	GAATCCGACA	GTGGGGTACC	GAAACCATCC	CAGCCTCTTA	600
40	TTACTAAGCT	GGATCGTGCA	CTGCAAGCGG	TGATAATTGA	ATCGTCCCCA	CGTATTATTA	660
	CTAAGCCGCC	ATCTTGCCGG	CCATGAGGAG	GGTACCGAAA	ACCAATCCCC	AATTTGCAAT	720
	ACTAA						

1526UP

	GATCGTCACC	AGGTCCCCGG	TCTTCGGGAA	CGTCTTGCCA	TGCGCTGGCG	ACAGTCTGTC	60
	GATCTTCACG	TTACCTTCGA	TTACCTCCGA	CATGCTCGTT	GCTGCTCCCG	TGGCTGCCCG	120
	AGAGTGATCA	AGTGCGTGTT	ATTAAGGCCC	CCAACGCCAC	CCGCTTGGCC	GGGTAACACG	180
	TGCCCGCGCG	CTCGCCGCGG	TGGGGCTGTG	CGGCCCGGCC	GCCCCATGCA	CCGGCACGCG	240
50	GGCCGGTGCA	CCGCGTGCGG	GCACCTTGCG	CCGCGCGCGG	CGCCCACTGC	CCGAAGCGGT	300
	AAACTTAGTA	CGCAACCGCC	CAGCGCCCGT	CATAGCATAC	GGACGCCAGA	CGGGGTAAAG	360
	CCGTAGCCCA	GTCGGGAATG	CGGGCACGAT	ACCTCTTTAG	GCAGGATACT	ATTTTAAAGG	420
	GTACAGGCGC	GCAGCCCATC	GTGCAGGCTG	CAGTAGCAAG	CTGAGACAGG	CTGGGCAAGT	480
	CTAGACCTGG	GACACAGCCC	GCAACCTAGA	GGCCGCGGTG	CGCCGAGGCG	GTGAGACATT	540
	TTGGGTGCGA	GGGCGCGTGG	CAGCAGGACA	AAGAGCCGCG	AGAGAAGCAA	ATGCMCAACT	600
55	AAACGGGGAG	GAAGGCGAGC	GGATTTCTTT	TTGGGCTTCT	GTGCGAGGTG	GAAATTGTAT	660
	AAATAATGGG	AGCGGCGGCT	GGTCTTGCGG	GCTGAGACTG	T		

1527RP

	GATCTTGCTG	CTATCCAGAA	ATGGGAAGTT	CTTAGACAAC	GGGGAATTAA	GCCCCTTTTT	60
	CAATATTTTG	AGCGTCGTGT	CATAGCTCGG	AAGACGCAGC	AGAAGCCCCC	CCAGTAGTGT	120
5	CTGTTTCATGT	TCGCTCATGA	AAGGTGTCTC	TATCAAATCT	AGCTCCATCA	TCGCAGAGTA	180
	GTTATTATCT	TTCTTCCAAG	ACAGACGCAC	ATGCCGCAAC	TTCGTCAGGA	TTACAGTAAA	240
	ATAATGGTAG	AACCGCGGAC	TCACAGAAGC	GACGACCGCT	CGAAATGAAG	TCGGCCCCGTA	300
	GAAGATCGTG	CGGCCCTGCT	TCTCTATCAC	AAGATGGAAC	TGCGAAAGTC	TGTTACACGGG	360
	GGACACCGTG	CCCATAACGT	GCTTCTGCGT	GAACAGCTGC	GGTACCATCT	CGCTCTTCAT	420
	CCGCGCGAGC	TCAGTCTCAA	GCTCGTGCAT	CCGTCGAGC	AGCTCCACAT	TGGGCGTCGA	480
10	GCTGAACAGC	TCCCGTGAGT	TCACGTCGTG	CGTAAACTCA	GACAGGTACA	CACACTCGGG	540
	CAGGCCCTTC	CCAATACATG	TATAGCACTT	CGGCCGCGCC	TTGTTGCACT	TGACGCGCCG	600
	CTTGCGGCGAG	AACACGCACG	ACTTGCTGAC	CTTCCGCGCTG	GTTTTCAAA	TCTTGCCATC	660
	GGACTCTGCC	ATCCCGCCAG	CTTCAAGCAA	AATGATTAGG	CTATA		

1527UP

	GATCGCGGAC	GTGGAGCACT	GGCCGGAGAT	GCGCGCGGCC	ATCCTGGTGG	TTTCTGCGGA	60
	CCGCAAGGAC	ACGCCATCGA	CGAGCGGTAT	GCAGCAGACG	GTGCACACGT	CGGACCTCTT	120
	CAAGGAGCGC	GTCGCGACGG	TGGTGCCGCG	GCGGTACGGA	AAGATGGCGG	CGGCGATCCG	180
20	CGCGCGGAC	TTGCGGACGT	TTGCGCGCCT	GACGATGCAG	GACTCGAACT	CGTTTCACGC	240
	CACCTGCCTG	GACTCATTTT	CGCCGATCTT	CTACATGAAC	GACACTTCGC	GCCGGATTGT	300
	CAAGCTGTGT	CATCTGATCA	ACGAGTTCCTA	CAACGAGACC	ATCGTGGCGT	ACACGTTTGA	360
	CGCGGTCCG	AACGCGGTGC	TCTATTACTT	GGCGGAGAAC	GAGGCGCGGC	TCTGCGGCTT	420
	CCTCTCTGCC	GTCCTTGCGG	CCAACGACGG	CTGGGAGACC	ACGTTCTCGA	CGGAGCAGCG	480
	CGCCACCTTC	GCCGCGCAGT	TCGACGAGTG	CGTGCGCGGC	AAGCTTGCGA	CGGACCTGGA	540
25	CGACGAGTTG	CACAGAGGAG	TTGCCCGCCT	CATCTTCACG	AAAGGTCGGG	CCAAGGGCCC	600
	AGGACACTAA	ATCCTCGCTC	ATCGACCCCG	AGACGGGCCT	GCCCCGTGAC	GCTATTCTCC	660
	TGCTATTTTC	TGCTCTGTAT	ACCCCTGCCAG	AACGCGCTAT	ATATATAGAA	TATGCATT	

1528RP

	GATCACTGTA	TCGAATTTGA	CACCCAAGGA	AGCCAAAACA	TCGTGGGCGG	ATCCCGACAA	60
	TGTGGAACAT	ATGATATCGC	TTTCTGCAAG	GATGCGTGCC	TGAGCTTTCC	TCATTATCAA	120
	TTCTCTATTT	CTATAATTCA	CCGCATTCCCT	TTCCCTCAGC	TCATCGCGCT	GCATTACCTAG	180
	CTCATTAATC	TTCTTGCTCA	AGTCCCTCAA	CTTTAGCTGT	ATCTTAGATA	TCTCATCAGT	240
35	TGAGAGTTTA	CTAGTCGGCG	AACCATCCTC	TTTATTCATC	ATATCCCTGA	GCCTTCTCCT	300
	CTCCGCTACG	CGGTCAAGAA	AACCTCTGATC	TAAGTTGCGA	TCGTGATTTA	TTTCGTACGA	360
	CTGATTCAAA	GCTCGCTTGT	CAACCAGCTC	TTCCAACGTT	AGGTCTCTGA	TAGCAGCGTT	420
	AACTGCATCT	GATTTACCAA	TCCGCACTAA	TTTTGGTTTG	AACAACTTGC	CGTCAGTATC	480
	GACCAAACTT	TCTCTCAGAC	GCAACACAAG	CTCGTCAACG	GCTGCATTAC	TGGGTGCACA	540
	TATCAGAACT	TTTTGTCTCT	GTAGTAACAT	CTCAGTAGAG	GTAGCGTTCTG	ATTCTGTGGG	600
40	ATTTCTGATA	ACATTTGATG	GTAGTGCTTT	TGCGGTAGTT	AGGAAAAAGC	CGACGACACC	660
	AAGAATAGTC	TTAGTCTTAC	CAGTACCAGG	GGGTCCCTGG	A		

1528UP

	GATCCAGCAT	TTGCGGTAA	ATCGGCGTAT	TCCGCACGCG	AAGGTGGGAA	GCTTCAACGA	60
	GTTGATCTGC	ATGTGGCGGG	CGCAGATGGT	TCTTCCACTG	CTGCGAGACT	TTGATGCCTG	120
	CAAAGTATCA	GATGCTGTTA	TTCTGGCGAT	GTATGAGATA	CTGCTGAATC	CGCAGATGCT	180
	CCGGTGCTCG	CCGGAACCTA	AGTACTACTA	TGATCTAGCA	TTCAAGGGCA	TGTATGAGAC	240
	GGGACATGAG	CTTTTAGACC	ACACAAAAGA	ACAAGGTATC	AATCTGCTCG	TACCTGGAGT	300
	CGTATATTCA	CAGATGTACG	GCTGCCCTGA	ACAGAGTTCT	TGGGCAACAC	GTCTCTTGCG	360
50	GCACTTCTTC	GAGAACGAAT	ACTCAATCAC	AAATGAAAAC	GTGACAACCG	AACTGCTTGA	420
	CGAAATCACC	TATCATTTTA	TTCAGTTACA	GTTGAGCAGG	AGCAACAGCT	CGTATTTGAG	480
	CATGATTTGA	CTATTCTGGA	GCAAGATGTG	CCCGTTCTTT	GCGCTGATGC	ATGTTGATGT	540
	CTTAAAGGAG	TACTTTATTG	AGCTCAAGAA	TATTAAGTCA	TTGCGGTCCA	CGACTAATGT	600
	TCATATTGAA	TCTGTTTTCA	AGGTATTTTA	TCACCATCTC	ATAATGCAGG	TAAGATCAAA	660
55	ACCGTTGGAT	ATTCTGCTCC	GTATTTTGAA	ATTATCCTGG	AAAAACTAGG	G	

1529RP

	GATCAAAAAG	AAGGCGATTG	CTATGGCGAC	GGTGACTGCT	GCTACCGCCG	TCTACGCTCT	60
	ATATCCCTTC	TCTCCGATGT	TGGTTGACAG	CTCCGCGTTG	ATCAAGCTAG	AAGGCACCAT	120
5	TTCTCTCAGT	AGCAAAGGTG	CTACTAATGA	TACTGATGTT	TTCATATTAC	CAGAAAAACA	180
	TTCTGCTGTT	CCGGGCTACA	ACACAATCAT	TCGTTTCCTC	GTACCCGCCA	TGAATGCCTT	240
	CAGGCTTTAT	GGCAGGCCGA	AAACACTATC	GGCGAGCAAG	GATGACACAA	ACTCACTCCT	300
	GTTTAGTCTA	CCAGCGCTTC	CACATGTGCA	CTACTTGCTG	GTCTAGGATT	TGCTTCCATT	360
	AGTGAATTCA	GCCTCTGGCT	CATGGACGAC	GCAGGAGTGG	CGGAGACAAA	TCAAGGCTCT	420
	ATTACAACGG	AGGGTAGCGG	CTGGCTATCA	GGGATGTGGT	TCAAGCTCCG	GTCTATCCGG	480
10	CGCTCTGTCC	TCCCCTGCTC	TGGGTCCATT	GAGTCTACT	TCTTTGTCTAT	CGCCGCATTT	540
	TGCTCCGTCC	ATTGCGTTTT	CGCCTACTGA	GTCCAACCTAC	ACTTTTATGT	CAAGTCACTC	600
	AAGAATAACT	TCACTACATG	ATAATATCCA	GAGACCATAT	TGAATACCGT	GGCCAGCACA	660
	TCCGATAATA	CWCTGCACCC	AAACAATATG	CTATCTCCCG	CAGGTCTTGC	CCCTGATGCA	720
	TT						

15

1529UP

	GATCCCGCTC	AATGCCAAGT	AGAATGTTTC	TCGGGGGAGC	CCATACAGTA	CCGCTCCTCT	60
	CTCATCCCCG	CTCTCCTGCT	CCACGTCTCT	TCGTGCAACA	TCTAGCAGTT	TCCCGATAAC	120
20	ACTGGGGATG	GTCATGCTCA	CGGCTCCGGA	TATCACGATC	AGCACCAAGG	CGCATACTAG	180
	AGACTTGAGC	TCAGGCCGCG	CCAAATTGAA	CAGTCTACGC	ACATCCTTGG	CACCTGATGC	240
	GTTGCCCGTC	GCCGTCGACA	GCTCGAGTCT	TTCTTGGTGG	GGTTTCTCTT	CCGTACTTGC	300
	CCGAGGGTMT	GCTGTTGAGT	TTAGCCTCGT	TTGAATTCTT	GTCGATGCGC	TGAACGAAAA	360
	GCGGGTGCGT	TGATGTAGAT	GATTGAACGG	CGGCCATCGC	TGCATCCCAA	TAACAGGCCT	420
	CGGCACCTGC	TTAACAGCTA	GCGATAGCCA	CATATATGTT	CTCCTCGAGG	TCATATTCCC	480
25	AGTTTTCTTC	TAACCTCACC	AGCCTTGTAG	GCCTCTCGAG	TTGCTGTAA	GTGGTGAATT	540
	TGCGCATCGG	ACTCATTTTT	CATGGAGAA	AAATAATTGT	ATTACAAAAT	AGAGATGCAT	600
	GCCCAGCTAG	TCGAGGCCAG	CTACTATACA	GCTCCTGGAG	CTTTGCAGTT	GTAGCGCACC	660
	GGTTTTTCGGC	TCCATGTGAC	TACAACATTT	T			

1530RP

	GATCCCTCTG	CTACAAACAC	ATACCTAGAT	TTCTCATATT	TTATACTGAA	TACATATAAT	60
	ATATCATTTA	ACTGCTTTCA	TTTATGAGAC	GTGCTCTAAG	TTCTGTGCTG	CTCAACTTGT	120
	TTTTCCACTT	GTCAGCCTCT	TCGCCCCCA	GTACGTTTAC	CACATGCACG	GCTAGCTTCC	180
35	TCATTCCMTT	GCTTTCACGC	GTATCGTTGA	TTGCTCTGGG	ACCGGCCACA	GTTTCCCTCAC	240
	TCACTACCAG	GGCTTTCGATA	CCAGGTTCCG	TACCGTGGG	CCCGCACACG	TCATGTAACG	300
	CAAATATTTT	GATTTCCAGC	CCCGGTTTCA	GCCTGTGAAG	GAAGCTGCAC	ACGTTATCGC	360
	ATCGTTTCGTC	GAAGGACTGA	AGCTGCTCCC	TGTATTTCTT	GTTCCGCAGC	AGTTCTTCAT	420
	CTGTAATCCC	CACGCTACGC	CGGACGCGAG	TCACGAGCGC	GGCAACACTG	AGCAATATTT	480
	TATGTCCGTC	GTGTAAGTGG	TCGAAAGTGC	CTCCCAGCGC	GCTAACAGCG	TACTTGTCTC	540
	TACCGCCACT	CTCGACCGGG	CCCGCAGCCG	CCATCGCCGG	ACTATCAAAC	AGCTCTATCT	600
40	GCCTGTGCGG	GAACGCATCC	TGCAGCAGGC	GATCGCTCAG	GAATACAACG	TCCCACCTCA	660
	TTGCGCTGTA	CGCTTCCATA	CTGACGTTGA	ACAAAACATT	TATCGGGGTC	GTGT	

1530UP

45	GATCCTGGGA	CGACATCGAC	ACCATTTCCTA	TCGGTAACGA	ACTTGTGAAC	AACGGCCAGG	60
	CGACCGTGGG	CCAGATGGCT	GGTTACATGA	AAACTGGCCG	CAAGTGCCTC	GCTGAGGCCG	120
	GCTACAAGGG	CCCAGTTGTT	TCCGTGGACA	CTTTCATCGC	TGTAATCAAC	AACCCCTGGT	180
	TATGTGACCT	ATCAGACTAC	ATGGCTGTCA	ACGCCCCACC	ATACTTCGAC	TTCCACACTT	240
	CTGCTGCTAT	GGCCGGCCCT	TGGGTTTTGC	ACCAGATCCA	GAGAGTCTGG	AGCGCCTGCA	300
	ACGGTAACAA	GAAAGTTGTC	ATCACCGAGA	CCGGCTGGCC	TACTCAGGGT	CAGACTTACG	360
50	GCAAGGCCAT	TCCAATCCAA	GCCAACCAGA	AGATGGCCTT	GGAATCTATC	AAGGCCACTT	420
	GTGGTGATAG	CGCTATCCTA	TTTACTGCTT	TCGACGACTA	CTGGAAGCCA	GATGGGCCTT	480
	ACGGTGTCTG	GAAGTTCTGG	GGTATGCTAT	AAGTTGCCGT	GTGCTTCTTT	ATGACCTGTC	540
	TCTTTATTTT	GCTCGGAACC	CTTACATGCA	GATGGGGGCT	GGCGGTGCAT	GGGCCTGCAG	600
	CCTCCGGGCC	TGCAAGTTTC	TACATCGCCC	TACTTTAGCT	GCCACGGGAC	TTTTGAATTT	660
55	CTTTGGCAGC	TGGTACTGCT	GGCATCCTTC	TCATAGAACA	CAGTGTGCCC	ACAGGG	

1531RP

	GATCTGCATC	CTCGTGATGG	AAAATACGGC	CATGCAGCTA	ATTTTGAAT	GGTTTCTGCA	60
	TACCGTAAGA	GAGATGGCTC	CAAATCATAC	CCAGTTACTA	TCCTTGTGAC	TAACTTTTCAT	120
5	AAGCCGACAC	CTACCAGACC	TGCTCTTCTG	AAGTTGGGAG	AACTCACAAC	GTCTTTTCAT	180
	GAGTTAGGCC	ACGGCATACA	CGATTGGTGG	GGTTCCAATG	AGTTGGAGTC	GCTCAACGGG	240
	CCTGGGTCTG	TCCCATGGGA	TTTCGTCGAG	GCGCCCTCTC	AGATGCTGGA	ATACTGGACG	300
	GCACGGCGTG	ACGTTTTAAC	TATGTTATCC	AAGCACTACG	AGACAGGTGA	GAAAAATCCCG	360
	AAGTCGCTGC	TGGATGCCTG	GTTTAGTGTG	GGCGCCCTCA	ATTCAGGATT	GGCCAACTTG	420
	GGCCAACTGA	AACTTGGCTT	GTTTCGACATG	TATGTGCACA	CCCGCGATTA	CAAAGGAGCG	480
10	GAGGTACGGA	AATTATGGAA	TGATCTCACC	AGAGAGATCG	GGCTCATGAA	CTTAAAAAAC	540
	TACACTAGCA	CCGGCTATGA	CTCCTTTGGA	CATATTATGG	CTGGATATGC	TGCTGGCTAC	600
	TATGGCTACC	TTTGGTCCCA	GGTTTTTGCT	GCAGATATGT	ACGACACAAA	GTTCAAGCCC	660
	AACCCATTCA	ATGCTACGGT	GGGTGTGGAA	TACAGGGACA	CTATTTTAGC	TACCGGTGGA	720
	CTT						

1531UP

	GATCCAATCC	TGGAGGCGGG	TTAAAGTGCT	CCTCAATGCA	GCGCAGCCGG	CACTGGAGTA	60
	TGGCACGGAA	ATCGCACTCT	GGAGGAGCGG	CGTGGTTGGG	AACTGGATCG	TCCACCTCGC	120
20	GCAGAAAGGC	CGTTTCGAAG	GCGCAGGCGA	GCGACCGAAT	GAGCATTAAT	AAAGAGGTAA	180
	CGTGCAATGCT	GTGAAGAGTT	TCACTTTATG	CGTTGCATTC	CTCCCCCCTT	GAAGACGAAA	240
	ACACGGCGCA	CATGCGCTAT	ATATACCCTT	CGTGCTACT	ATTGTGCGCT	GCCCCGCTCTC	300
	ATGTCAGTTT	TTACTTTTTG	ACGCCGGGAA	CGCGACATCT	GCCACAACGC	ACCAACGCCC	360
	AGTGACCAGC	TCTATGCGCG	TTGCTCTGCC	AATAACCAAG	CCCCTACTAG	CCGAGCATTT	420
	TGCCCTTAGTC	CACCAGATAT	TCCATTGTTA	TCGTTGCTCG	CCAGCCTCGG	GCTGGGACAT	480
25	AAAGATCGGA	AGCTCCTGTG	CAAACCTGCA	CAGCGCGCCT	TCGAGAATAC	TCCGCAGGGA	540
	CCCCCCTTCC	CATTAGTCCT	TGGCAGTTTT	TTGCTTTGTC	CCGCGATAAT	GTATCTAAAT	600
	ACAGAAATATC	GATTACGGCG	AATAGGCAAG	TTTTGTGGTC	TGACATGCCG	AGTGTCAGTT	660
	CATGATTACA	TAATGTGTGC	TGCCATATCT	GT			

1532RP

	GATCTKTGA	AAGAGTAACC	AGGATCAAGC	CTGCGGTATA	GCCAGCGAAA	TATGCATATG	60
	AAGTCTTTCT	GCGTGGGCTG	TTTCAATGAC	TTCACTGATA	TGCGATGCCC	AGTTTCTATG	120
	TCAAACCTGC	GCGACTGCAG	ATAATCAAAT	ATCTCCTGCT	GCAACACTGC	CTGGTAGTTT	180
35	TTGTACCGGA	GAGGTGCGCG	GTCGCGGGTA	CTCTGCAGCG	CACCGTAAGC	TGACGGACCC	240
	CCGCCGGGAA	CAATCGAAGG	CCGCTGCGAA	GATCGCAGAC	TCCGCCGGAG	AGACTTTTCG	300
	ACCTCGGGCA	CAGGTCTTGA	AAGAGAGCTC	CGGCCGTTCC	GTGCCAGACT	CTTGTTTATC	360
	ATGTCCGTAA	GAGCAGCGTT	CGTGCCAGGT	ACGCCCTTCT	TGTTTCGTGT	TCCACCAATT	420
	GATGGAATTT	GAGACGTGAA	CCTCTGCGGA	TTCAAGCTAT	TGAGCACACC	ATTGGCACCA	480
	CTTGAGCCCC	TTCTGCTTGC	CATCCCTAAT	CGTCCATACC	TACGGGCGGC	TAATAAGTTA	540
40	CTACCAGACT	CTGGCCCTCA	TCTGGGACTG	ATGTTATCGT	CTGCAGCCAG	ATCCTGTTTG	600
	TGACCCGATC	GAAATCATCG	AGTACGAATA	ACCACGTGAC	CATTATTAC	GTGATGAATT	660
	TGGCGGTCCC	TGTTGCCGAC	TCTTACTCCA	GGTTAACCAT	GACTAGATGG	GCATACCTCA	720
	GA						

1532UP

	GATCATCTGA	ACGCTCATGA	ACAGTTCGCG	GAACATCGTG	TCCACGACTA	TGCACTGCTG	60
	GATGTCTTTC	TGGCCGAAGT	ACGCGCGGTC	CGGAGCAACA	ATGTTGACCA	GCTTAGCAAC	120
	GACCGTCGCC	ACACCGCGGA	AGAAGCGTGG	ACGGGTGCGA	CCCTCCAGCA	TCTCGCTGAC	180
	GCCAAGCACC	GACACAAACG	GCCCGCGCTG	CGCCTCGACC	TCCAGTGGGA	TGCCGCGCGG	240
50	GTACATTTCC	GCGGGAGAGG	GAGCAAAGAG	CACGTCCACA	CCGGCCTCTT	CCAGCAAACG	300
	GCGATCCGCT	GCCAACGTCC	TGGGATAGCG	GTCAAGATCT	TCGTTGCGCG	CAAACCTGCG	360
	AGGGTTTACG	AAGACTGAGA	CAACAGTAAA	GTCGTTTTCC	GCGCACGATC	TCCGCACGAG	420
	CGTCATGTGT	CCCTCATGTA	GGCAGCCCAT	CGTTGGCACA	AACCCAAATG	TCTGTGCTCT	480
	GCAATCTACC	GTCTGCTTGC	GCCATTGCGA	GACTTCTTGG	ACCTTATTGA	GCAAGTGATC	540
	GAGCGGTATC	GCTTTGATGG	TTCAGCCTTC	AAGTTTGTCT	GTGTGCATCT	CACAGATTAA	600
55	GGAAGCTTGC	GCACACTAT					

1533RP

	GATCACGAAC	TCCATCATTA	CAAAGTCCAT	CGCGTCGATA	CGAAAAACAAA	ATGCACAGCC	60
	GCTACCGACC	TTCCGAAACC	TCGAGAAGAT	CAACCAGCCG	CCAAAAGAACG	CTGACCATGC	120
5	GTGGGAGTAC	ATAAAATCGT	GAATTATTGG	GGTTGTATGT	ACTATATACT	ATCGCTCTGC	180
	CGCCCAATGA	TGGTTACGCC	TCTTGCACGT	GCATTCTGGG	TGACGAGGTT	GTCTCCGTAC	240
	ACCTCTACTA	TTTCCAGGTT	GGGCGCACAT	TCGCTGATAT	GGGCGAGCAA	TTTGTCTGCA	300
	ACGCAGCGGA	CGAACCCCTAC	ATTTCAGTTGC	TGCAAGTTTG	GACAGGACAT	TAGCTGGAAC	360
	CCAGCTGCCG	TCAGGTTCCCT	GGCTGAGTTC	AAGTTTAGCT	CTTTGAGGAA	TTTGGAACAT	420
	GGATTCAACC	ATATCTCCGC	AATTGATGCA	TCATCCAGCT	GATGGCAGCG	CCTCAAGTTG	480
10	AGGTAGTGAA	GTCCGGGAAG	CTGGACCGAA	GAGAAAAATG	TAATGAATCC	ATCGGACGTA	540
	ACCTGGTCCA	ATTCTCTTAG	GGAT				

1533UP

	GATCCGGAGA	CAGACGTGTA	TCTGAGTTCT	ACCGCTGGGC	GCTGAAACGC	ACGTCGTTAG	60
	CGCACATCCT	GTGTGCTTGC	ACCGGCCAG	AGCAACCAAG	TATTCCTATA	TTCTGTAAAA	120
	CTGCGGTAAAT	AACCATGTAG	AAGATTCCGC	GCCCGAATAC	CCGTTTTACC	CCAATATGTC	180
	CGTCATGTGA	GCTATTGGAT	CGAAGAGTTT	TTAATGACGT	ATCCCTTATC	ATAAAGCGGT	240
	GCTGGATTAT	TGGAGCATGC	ATCTGGTTCA	GCTCGGGCGT	GCCAAATATA	TGGTGCAAGA	300
20	AGAAACTATC	GTACCAACCC	CGTCTGTTCT	GACCTGTGTC	CTCTTAATCG	GCATGACTAA	360
	TATGGGGTAT	CCTTAAAAACC	TTTAAAGATGT	TACCTCCGGT	CTCCAGGCGG	GTTGTCTAGT	420
	TTACAAGAGT	AAATACCACC	TTGCCCTGG	GAGGGTTCTT	ACTTTACAGT	AGGAAAGAAT	480
	CGATACCACT	GGTGGGGGGA	TTTGGTATAT	TTTGAAAGAT	GGATGGAATG	GAGGGCTCCT	540
	TATTGACAGC	AAAGCCACTC	CGACAGAATA	CCCACACCTT	GGATTTGGAA	GCTGCGGATC	600
	GACAGAACAT	GGTTACGTAA	TCGAATTGTC	CTGTGCGGCC	GCCCTTCCGG	TTAATCAAGA	660
25	AGAACAACCG	CGGGGCACGC	AGGGAACATAT	TGAATTACGT	GCTGCCAAGC	CTAATTTATG	720

1534RP

	GATCCACATT	GGAATATGGG	TATGGGACTT	GATGGTTGAA	CGCTTCGCTT	CAACCACTGC	60
	AACATTGGCA	AACCGTTTGA	AGTGCTGGAT	GATTTTCTCC	TTCTGGATCG	CAGTCAAGAT	120
	GTGGCCGAAT	CGTTTTCGT	TGTATAGGCC	TTGCTCATCC	TGTGCTTCAT	CCTCATCAGA	180
	CGCTAATGGA	ACGTCTGGCA	CAATCTCGAC	GCCATCGCAG	GATGCGATAC	TCAAGGTATT	240
	GAGCATGTTC	AAGGCATGTT	CCCTTGCTAC	TTTAAACCTT	GCATCAACTT	CCTCCTCGTT	300
	TTTCCATAGG	CGAGGGACAT	CGTTTGTATC	GTAACGAAAC	TTACTTTCAA	AGCGTTCTCT	360
35	CAGTATAGAA	ACCACATTGT	CTTCCTTCAA	ATACTGGTGG	ATAATATCAT	ACAGAATAGT	420
	CCATGCATTT	GACCGGATCT	TCAGGTATAA	AGCATAATTG	TCCTCCTCGA	TGAGGTGAG	480
	CTGGAAGTCG	TAAGCGGTAC	TTTCATCGGT	GACATCCCTT	AAATTGGGTA	GTTTATACTT	540
	TAGAACTGAA	CGGCGGAAAA	CATCATCAAA	GTGGTCCATA	ACAAGTTGCC	AGACGTTATC	600
	CTGTGGATGG	GAGAGTAAAT	GGACAATATC	GTCTCTAGTA	TGTGTGAATT	GGTACTTTTT	660
40	CGCCCTCAAT	ATAATAGCTT	TCATCTCCTT	ACCACGCTCT	CTTTCCGCTA	GTTCACTATC	720
	TTCTCCA						

1534UP

	GATCAGCGTG	GACTTGATCA	TGGTGTGTCT	CGTGCGGCCG	TGTGGTAGGC	GGGGGACGCT	60
	GCTGCTGTCC	TTTGTGCGGC	CCGCGGCGGC	GGCGATCAAA	GATCGCGCAC	CACGGTCGCC	120
	GCCGGGGGGG	CTCCAAGACA	CACGCGCACA	GCAGCGCGCG	CGTGCCGGGC	AATGCAGCGC	180
	GCACAGCTAT	CCTCGCGCCT	CGTACCGGTG	GCTGCCCTTCG	GCGGATTGTC	GCTCGTCAGC	240
	GGTCACGTGA	CCCGAGATAT	GTTGCAAAACC	AAGCCATCGA	TCGGCATAGG	AACGCATTAC	300
	CAGCOGATTC	GAAAACCCCTC	ACAACCCGCC	ATCTGCTGGT	ACGACCACCG	CAAGTCGCTG	360
	GCACTGGTTG	CACAGTGGTA	AGGTCTTCGT	TCAAAAATTAC	TCTGCCAGGG	CCGCTCTCAA	420
50	AACCTGTCAA	CTGCAGACGC	ACTGACAGTC	CGTCAAGATG	CGACATTACA	ATGCTCTGGA	480
	AGCTCTCCAG	TAGGTTCTCG	CGCGCGTGCT	AGACAGTCAG	GGGCGAGCTT	CATCGACAAA	540
	GACGCGCAAG	GATGTGCGAA	TTGCTTCGCA	CAGTCCACTC	TAGGGTCGGA	CGGGAAAAAC	600
	AGCGCTACTC	TGCGTTGACT	GGGCGGAGAC	TGGTAGCCGG	CTGCGTGGCC	TCAATGAGGA	660
	CAGACCAAGG	TGATCATGAT	AC				

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1535RP

	GATCTTGCTG	CTATCCAGAA	ATGGGAAGTT	CTTAGACAAC	GGGGAATTAA	GCCCCTTTTC	60
	CAATATTTTG	AGCGTCGTTT	CATAGCTCGG	AAGACGCAGC	AGAAGCCCCC	CCAGTAGTGT	120
5	CTGTTTCATGT	TCGCTCATGA	AAGGTGTCTC	TATCAAATCT	AGCTCCATCA	TCGCAGAGTA	180
	GTTATTATCT	TTCTTTCCAAG	ACAGACGCAC	ATGCCGCAAC	TTCGTCAGGA	TTACAGTAAA	240
	ATAATGGTAG	AACCGCGGAC	TCACAGAAGC	GACGACCGCT	CGAAATGAAG	TCGGCCCCGT	300
	GAAGATCGTG	CGGCCCTGCT	TCTCTATCAC	AAGATGGAAC	TGCGAAAGTC	TGTTACCGGG	360
	GGACACCGTG	CCCATAACGT	GCTTCTGCAT	GAACAGCTGC	GGTACCATCT	CGCTCTTCAT	420
	CCGCGCGAGC	TCAGTCTCAA	GCTCGTCGAT	CCGTCCGAGC	AGCTCCACAT	TGGGCGTCCA	480
10	GCTGAACAGC	TCCCGTGAGT	TCACGTCGTG	CGTAAACTCA	GACAGGTACA	CACACTCGGG	540
	CAGGCCCTTC	CCAATACATG	TAGAGCACTT	CGGCCGCGCC	TTGTTGCACT	TGACGCGCCG	600
	CTTGCGGCAG	AACACGCACG	ACTTGCTGAC	CTTCCGCTTG	GTTTTTCAAA	TCTTGCCATC	660
	GGA						

1535UP

	GATCGCGGAC	GTGGAGCACT	GGCCGGAGAT	GCGCGCGGCC	ATCCTGGTGG	TTTCTGCGGA	60
	CCGCAAGGAC	ACGCCATCGA	CGAGCGGTAT	GCAGCAGACG	GTGCACACGT	CGGACCTCTT	120
	CAAGGAGCGC	GTGCGGACGG	TGGTGCCGCG	GCGGTACGGA	GAGATGGCGG	CGGCGATCCG	180
20	CGCGCGGAC	TTGCGGACGT	TTGCGCGCCT	GACGATGCAG	GACTCGAACT	CGTTTCACGC	240
	CACCTGCGTG	GACTCATTTT	CGCCGATCTT	CTACATGAAC	GACACTTCGC	GCCCGATTGT	300
	CAAGCTGTGT	CATCTGATCA	ACGAGTTCTA	CAACGAGACC	ATCGTGGCGT	ACACGTTTGA	360
	CGCGGTCCG	AACGCGGTGC	TCTATTACTT	GCGCGAGAAC	GAAGCGCGGC	TCTGCGGCTT	420
	CCTCTCTGCC	GTCTTTGGCG	CCAACGACGG	CTGGGAGACC	ACGTTCTCGA	CGGAGCAGCG	480
	CGCCACCTTC	GCCGCGCAGT	TCGACGAGTG	CGTGCGCGGC	AAGCTTGCGA	CGGACTGGAC	540
25	GACGAGTTGC	ACAGAGGAGT	TGCCCCCTC	ATCTTCAAGA	AGGTGCGGCC	AGGGCCCCAAG	600
	ACACTAAATC	CTCGCTCATC	GACCCGAGAC	GGGCCTTGCC	CCGCCTGAC		

1536RP

30	GATCATTGT	CCTTGACGCA	CAAACATCCA	CAGCTGTGCG	ATTTGCAGTT	GCAATCCGGA	60
	GCAGCAGCTC	CTTCGACGCA	TTTGCAAACG	CCAGGCTCTC	CCACCTCTTT	CGCATGTTCT	120
	TCTGACATTT	TTGTTTGTTT	TAAATCGTGA	TTTTGAGTCG	ATGGTTCCGA	GACCGCCGCA	180
	GCTGACTATA	GGGGGGACCA	AGACCCTTTA	TATATTTTCG	CAACCAGATA	CATTAATGCG	240
	ACGCCAAAAC	ACTATCAAAA	ATAAGGTATA	GCCTCATTTT	TATTGTGACC	CATGGGACAT	300
	GCTGTAAATCG	GATTATTCTA	ACTAAGCTAG	TATTATGTCT	GTATCCTTTT	ATTAATTACA	360
35	ATCACTGCTG	AGTTCCGGTA	TCGTGCAACT	GCACACGCAG	CTCATCAGTG	GTTTCGTTCC	420
	CGCGCAGATC	ACGTGCCTGC	GACATGGCGA	CTTCATCCAC	TGGCGCCCAG	CTACGTGGTA	480
	TATGACATTA	TGGCCGAGAG	GTTAAGGCGT	GAGACTCGAA	CTAAATTGAG	GGATCTCTTG	540
	GGCTCTGCCC	GCGCAGGTTT	GAATCCTGCT	GATGTGCTTA	TTTTTTTGCTT	GCGCGGCCCT	600
	CGGGGGGCTG	TATTTGCTTG	TTGCTATTTA	GATAAACGAG	ATACTAAACT	ATGGGTAGAA	660
40	CTCGCGGTAC	TTCCCGTAGT	AGTAGGCTGT	GCCGAAACCG	CCGAGGGCGG	TGAGCAC	

1536UP

	GATCAGCTCG	GTACTGGAGA	AACAAGGCTA	CTGTCCCTTG	CCTTGACGAA	GTTACGCGAA	60
45	ATCGAAAGCA	GCAGCAACAA	GCAACATAGC	AAGACCGCTA	AATACATTCT	CAAGTCATTG	120
	GAATAAGCTC	TAAAACTACC	GATACGTATA	TTTACTGCGT	TAACGTTTAT	ATACATATAT	180
	CTAGGCGTGC	GTATGGGTGT	TGTACGTGTA	CATCTAACCA	AATAACTCCA	CTATAGCTGT	240
	AGTACATGGC	ATTCCCTTGT	AAGCAACTTC	AGGTTCTGGA	CTACCCAATT	GCTGTCCCGC	300
	ATCCAGCCT	TGGGGTCGTG	GCCCTGTGTT	GACCTCAATT	TAGCGAAGAC	CGACTTGTAG	360
	TCGCTCTCAT	ACTGCTTGAA	TTGCGGAATG	ACGCGGTTAG	AGTCGAACTC	AACATACACG	420
50	CGCGTATCGA	CTATCCTGAA	GAGGACATCG	TCCACACGCA	GGAAGAAACG	ACTCAAAATC	480
	AGCATACACT	CGTTTCATCAC	TCTCACCTTA	ACATTACAGAA	TGCTAATGCC	ATTGTCCGCT	540
	AGTTCTGCTT	CAAAATAAAT	CATGTCTGTC	TAGAAAAGAA	TGGGGTCCGG	GCTCGAAAAG	600
	CTTCGCGAGA	CGCTGTCTCA	CGCTGTCTCA	TCTGACCATC	GCCCTGCCAT	CTATGGTGCC	660
55	CTGGTAGAGC	GTCGTGTACG	TCCAGTCGTA	CTGGTGGGAT	ATGTTTAGGG		

1537RP

	GATCTCCGTA	CTTTAGGATG	GCTTTATAGA	GGGCACGAAT	TTCCCTTTTCG	CCTATAGAGT	60
	TCAGGTTGTT	GGATTTTCGCA	CGTTTTTTTGG	AGCGTGAATC	CTCTTTGTGCG	CTTAAGCTCT	120
5	GAGCTCCATC	TCCATTGACG	CTATTTTTTA	TCATTATTCAG	AGCAACATTC	CTACGATTCA	180
	TCATTTGCAG	TTGTTCTCGG	ACATACTCTT	CATCCTTCCG	CTTCTGTTCT	TCGTCTTTGA	240
	GTTTGCGTAG	CTCGTCTTCC	GGAATGATAT	CATCCCATTC	CACGTCAGCT	TTATAATCGG	300
	TGACTTCAAA	CTGTTTTAGG	AATTCCCTCAC	CTCCGAGATG	AGACTCTCCC	AAATCTGGTG	360
	TGGTGACGTG	ATCTTCCGCA	TGATTCAAGA	CATCATCCAA	GTTCAAATCT	TCAAGCTTCT	420
	TTTGATTATC	ATGCGCTTTG	AACATATTGC	CTGCACCAAA	CTTGAGAATC	TCAGACAGCT	480
10	CTCCTGCACT	AGGTTCCGGCT	TTGCTCTTGC	TCGTATATTT	ATTCCCATCT	GTAACACCTA	540
	ACGAGATGAT	AGCATACTCC	AAGATCATCT	TTTTGCGTGC	TCCTTCTAAG	ACTTCTTCTT	600
	CAACGGTATT	CTTAGACACA	AAACGGTAAA	CCATAACATG	ATTCTTTTGA	CCAATTCTAT	660
	GCGCGCGAGC	CATTGCTTGG	AGATCGGCCT	GTGGATTCCA	GTCGGAATCA	AATATGATCA	720
	CAGTGTCTGC	CGTCATC					

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1537UP

	GATCTAGACC	ACCCGGGCTC	GTTACCCGGA	TACGAAGTAA	AAGCAGTCGG	GAGCGGTCTT	60
	CTGGCAACGA	CGTTTTCTTC	TACACACCTC	CTCGCACAGG	ATCCAGCATC	CTGCCGCATA	120
20	ACGTCAACGC	CGGCGTTGTG	ATGGTTCCCA	GGTGCCACTG	GCGCCAAGCG	CTGCGTGAGA	180
	AACAGCAGCG	CTGCACCTCG	CTGCTTCCGG	GAGGCTCCTG	GGAGTGGTCC	GGGGGTTTTG	240
	CCACCGCTCA	ACCTAGCGGG	GCGTCGCTGT	GCCGGGCTCT	CCATGCAACT	GGGGCGCTCC	300
	CATGATTGGC	GGGGCCTTAC	CAGGGTGGTG	TTTGGGCTGC	CTGGCTGTGC	GTGGCCACAC	360
	GATGGCCTGC	TGGAGGAGCT	GAACCTGCTT	CCGTGGTGCA	AAGGTGTGTG	CGACAGCGCA	420
	CCTGCGTGCA	AGCTGTGCCT	GCGGGGGCGT	GTGGAATTGT	GCGTCCGCGG	GTGCAACTGT	480
25	GGTGACAGCG	CTTTGCAAGC	ACGTGATGGT	TGGTGCGGGG	CCCAGACGTG	CTCGGTGTGT	540
	CTCAGACAGC	TTTTCCGCGG	GCTGCGGCGC	CGCCGTTGCC	GCCATATGAT	TGATTCCGTC	600
	TCGATTAGTG	CATGGTGGTC	AGCTTCCAGA	TGGCCAGGCT	GTAATTGTGC	TTGCCCCGGG	660
	CCGGCAGGCT	CTTTGGCTGT	GCCGGTGGGT	CTTGCTTGTC	GGGCTGGCGC	CGTTCT	

1538RP

	GATCCCTCTG	CTACAAACAC	ATACCTAGAT	TTCTCATATT	TTATACTGAA	TACATATAAT	60
	ATATCATTTA	ACTGTCTTCA	TTCATGAGAC	GTGCTCTAAG	TTCTGTGCTG	CTCAACTTGT	120
	TTTCCACTTT	GTCAGCCTCT	TCGCCCCCCA	GTACGTTTAC	CACATGCACG	GCTAGCTTCC	180
35	TCATTCCCTT	GCTCTCACGC	GTATCGTTGA	TTGTCTGGGC	ACCGGCCACA	GTTTCCCTCAC	240
	TCACTACCAG	GGCTTCGATA	CCAGGTTTCG	TACCCGTGGG	CCCGCACACG	TCATGTAACG	300
	CAAATATTTT	GATTTCCAGC	CCCGGTTTCA	GCCTGTGAAG	GAAGCTGCAC	ACGTTATCGC	360
	ATCGTTTCGT	GAAGGACTGA	AGCTGCTCCC	TGTATTTCTT	GTTCCGCAGC	AGTTCTTCAT	420
	CTGTAACTCC	CACGATCAGC	CGGGACGCG	TCACGAGCGT	GGCAACACTG	AGCAATATTT	480
	TATGTCCGTC	GTGTAAGTGG	TCGAAAGTGC	CTCCAGCGC	GCTAACAGCG	TACTTGTCTC	540
	TACCGCCACT	CTCGACCGGC	CCCGCAGCCG	CCATCGCCGG	ACTATCAAAC	AGCTCTATCT	600
40	GCCTGTGCGG	GAACGCATCC	TGCAGCAGGC	GATCGCTCAG	GAATACAACG	TCCCACCTCA	660
	TTCCGGCTGTA	CGCTTCCATA	CTGACGTTGA	ACAAAACATT	TATCGGGGTC	GTGTACAGCT	720
	TCTGCTTCAG	AAG					

1538UP

	GATCCTTGGG	ACGACATCGA	CACCATTCTT	ATCGGTAACG	AACCTGTGAA	CAACGGCCAG	60
	GCGACCGTGG	ACCAGATGGC	TGGTTACATG	AAAACCTGGC	GCAAGTGCC	CGCTGAGGCC	120
	GGCTACAAGG	GCCAGTTGT	TTCCGTGGAC	ACTTTTCATC	CTGTAATCAA	CAACCCTGGT	180
	CTATGTGACT	TATCAGACTA	CATGGCTGTC	AACGCCACCC	CATACCTCGA	CTTCCACACT	240
50	TCTGCTGCTA	TGGCCGGCCC	TTGGGTTTTG	CACCAGATCC	AGAGAGTCTG	GAGCGCCTGC	300
	AACGGTAACA	AGAAAGTTGT	CATCACCGAG	ACCGGCTGGC	CTACTCAGGG	TCAGACTTAC	360
	GGCAAGGCCA	TTCCATCCAA	AGCCAACCAG	AAGATGGCCT	TGGAATCTAT	CAAGGCCACT	420
	TGTGGTGATA	GCGCTATCCT	ATTTACTGCT	TTGACGACT	ACTGGAAGCC	AGATGGGCCCT	480
	TACGGTGTCC	AGAAGTTCTG	GGGTATGCTA	TAAGTTGCCG	TGTGCTTCTT	TATGACCTGT	540
	CTCTTTATTT	TGCTCGGAAC	CCTTACATGC	AGATGGGGGG	TGGCGGTGCA	TGGGCCTGCA	600
55	GCCTCCGGGC	CTGCAAGTTT	CTACATCGCC	CTACTTTAGC	TGCCACGGGA	CTTTTGAATT	660

TCTTTGGCAC GTGGTACTGC TGGCATCCTT CTCATAGAGC ACAGTGTGCC ACAGGGTATC
ACTGG

720

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1540RP

GATCTTTTCT	TTGTCAAAGT	TCAACACCTG	TAAGCCGCCT	CTAGATACCG	CTCTAGAAAAG	60
GGCCACATAC	GCTTGGCCCT	TTTCAAAAAC	ACGTCTGAGA	TCCACTTTCA	CTTTGTTTAG	120
TGTTTGGCCT	TGAGATTTAT	GAATGGACAA	GGCCCATGCA	AGCATGAGTG	GCAATTGAAC	180
TCTCGTTACT	AGAGGCTTCT	CATTTTCGTC	CTCGATAGCC	CATGCCTCTT	CTCGAACTAA	240
AACTGTTCTG	GTGGTATTGT	CGGGCTGGAA	GAATTGCACT	AATGGCAACT	TCTTACCCTT	300
TGAGCTCATG	TGAAC TTCCT	GTAAGAGCTG	CTTCTTCCGT	TCTAGATTGG	CCTTCACTTC	360
AGGATCTGTG	ACTTCTCGAT	CATCCTTTAA	GAAATCGAAT	ATCGTGTGCG	CCAAGTGGTC	420
TACAGTGTC	TCTGTGTCTA	TGTCCTAAA	CTTCTCTCGC	AGAGCTTTCT	TGACCATGCT	480
TGTGCGGGTC	TCCTTCTTGG	GCTCCTCATC	CTCATCAAGC	TCGGGGGCGT	TCCAGTCGTT	540
TTTCGCTAAT	GCATCCCGAT	ATTCTCCTCA	TTCTGCAACG	TCAAGATCAT	CATCGCGAAC	600
ACTTTGATAG	AACATAAATG	TTGCCTCATC	GATGAAGTCA	ATGACCTTCC	CCAGTGATCC	660
GTTTACGAGT	GTATCATCGA	AGTTCTTAAT	GTTTATAACC	TGTGCGCCGA	CTTTAA	

1540UP

GATCTCCTGC	GCGAAGAGCA	CGCCCTGCGC	CCATCCGGCA	TAGGGGCCCC	ACTTTTGTAT	60
GAACATTTCC	CGCACAAAGCT	CCAGCTCCAT	GTTTCAGTTTC	TTGCGCACAC	TGGGAAGGTC	120
CTTGTATCGC	GCTTTCAGCG	CAGCGATCTT	CGCTGCCGAT	GCATTGAACT	TGTAGTCTCT	180
TTGTGCGATC	CTGTTGATGT	GCACGTCTAC	AGGCACATGG	TCGTCCATCT	GCATGCCCAT	240
GAGGCAGACG	CAATCTGCGA	CCTTCGGACC	CACCCCCGGA	ACCTCCATAA	ACCGCTGACG	300
GATCTCCTCC	CGCGATATCA	TGTCTAGCCA	GGATTCCAGG	TGTTTCAGTAT	CGCTCATGTG	360
TGCCGGTTTA	CTTGAATCCA	TCCATTCTGC	CGCAGCCATG	ATATACTTGG	CGCGATACCC	420
AAACCCCAAA	TCCCGCAGTG	CGTCCTCGCT	AGCGCCTTCC	ATCAGCTGCT	TGCTGGTGGG	480
GAATGAGTAG	TATGGAGTAC	CGTCGAGCTC	GCCGAGGAAG	CTCCCGTACT	GCGAACACAG	540
TGCATGGCAC	ATCTTCGTGA	TGCGCCCGAT	ATTGTTGTTG	CTAGAGCAAA	TAAACGAGCA	600
CAGTGTCTCC	CAGGGTTCCT	GTCGCAGTAT	TCGCACGCCA	CGA		

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1541RP

	GATCGAACAA	CCATACTTTA	GGCCACACG	ACCGTTCCCC	TCGGGGATAT	CCTGCCGCCC	60
5	CTCTACAAGA	TTGGATTCAA	TCATCACCCC	ACAAATGGCA	TTCTCACCTT	TACTCAGCTG	120
	CTCATAGATA	TCTTGGGCGA	CTTTCGGCTG	GTTGCGGTAA	TCCTTGTTGG	AATTTCCATG	180
	CGAGCAGTCA	ATCATAATCC	TCCGCTGGAC	CCCAGCGCTG	TCAACTAGCT	TCGCATTGAC	240
	CAAGTCCTGC	TTAGCCTGTT	GTACACTGGC	AGCGTCATAG	TTTGTGCCAT	CTTTACCACC	300
	GCGTAGAATG	ATGAAGGTGT	CCTCGTTACC	TTCAGTCCCA	ACAATCGCAG	TCACTCCAGG	360
	CTTGGTAACC	GAAAGAAAGT	AATGAGAGTG	AGCAGCGGCA	CGCATAGCGT	CAATAGCAAC	420
10	CTGTAAGCAG	CCATCTGTCC	CGTTCTTGAA	TCCGATCGGG	AACGATAGTC	CAGAAGCCAG	480
	CTCACGGTGC	AGCTGCGATT	CTGTCGTCCG	GGCGCCAATG	GCGCCCAAGG	AGAAGCAGTC	540
	GCTTAAGAAC	TGCGGCGATA	TGGTGTCTAG	CATTTGCGCC	GCAATTGGAA	TGTGCTCCAC	600
	CAGCTGCGTG	TACATCTCCC	GCGAGATACG	CAATCCCTTG	TTTATTTGGA	ACGAATTATC	660
	GATGTCGGGG	TCGTTGATGA	GCCCCCTCCA	CCCCACCGTG	GTCCGCGGTT	TTCCAGATAC	720

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1541UP

	GATCAGCTGA	TGAAGATTGT	ACGTCATCAC	TGCTATTTAA	CACAAACATA	ACATAATTCA	60
20	TCCGCGATAG	TTTAATGGTT	AGAATTCGCG	CTTGTGCGCG	GCGGGATCGG	GGTTCAATTC	120
	CCCCTCGCGG	AGCTTTTTGT	GACATTTATT	GAAACGGTTG	TCGTTATAAC	CGTTCCGATG	180
	GAATGTGGCA	GGACCCTGTA	ACGGCGACGT	ATCCTGCAAC	TTGACGCTGT	TGTCGCGTCT	240
	ACGCCAGGGC	TTGGGCTTCC	AGAAATTGGC	TTTCCCCGAG	CCCGAGTTTT	TGTGACCCAA	300
	TATTTGAGCT	GCTGATCATC	AAGCTCTAGT	CGCACACAGG	GGGCCCCGAGT	ATCCATTGAC	360
	AAAGGTCGGT	GCAACATCCG	ATCGCCGGGT	CCCTTTATAT	ATAAATATAC	ACTAATATAC	420
25	CATGCGAATA	CCCGACTGCC	GTGGATAGGG	GACGTTTGAG	GCCTCATACC	CCTCAATACA	480
	GATAACAAAA	TTGGAATATA	GGAGAAGAAA	TGTTGAGAG	GCTAAACTTT	AGGTTCCGGC	540
	GATGCAGAAG	ACTCAGAGCC	AACCGTTTAG	CAGACGTTCC	ATACCCGAAT	CCCACGTTGA	600
	ATTCCGCAAT	CATTTCCAGA	ATCGACACAA	TCACGGTGTC	AATCTCGGGT	CGCTATCGTC	660
	CTTGAGAAGT	GGATATCGAG	TCGATGTTCC	AATGTGGCGG	CGAGACCGAG	CATGCGGGGA	720
	TCAGGAAGAT	GA					

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1542RP

	GATCATGTGG	AGGAACTCGG	GCAGCGTCTC	GGAGCCGGCG	TAGTGGGCTA	CTGTGGCGGC	60
35	GCGGGCAGCC	GACTGCTCGG	GGTATTCGGG	CGCCGGCGCA	GCGGCGTGTG	AGCCGATGCT	120
	GCCTCCGGGG	TGGCGGGCGG	CGAAGGCGTC	TGCGCGGGCG	CGACGGGCGC	AGGGCGAGCC	180
	CCCCTCGGAG	AGCGCGAGCA	CAAGGCAGTC	GAGGGCGAGG	AGCATGAGGG	TGGTGGCGAT	240
	GGTGGGGGCG	TTGAGGCCGT	CCTGGACGAC	CGCCTCGCGC	AGGTGGGGGG	GCTGGAAGAG	300
	GGTGATCACG	TGATGCGCGC	GGCGGGCCAG	CGTCCAGGCG	GGATCGCCCG	TGACGGCGAT	360
	GAGCGGGCTG	GCGGGTGCGA	AGCGCGCGCT	GCGCAGGTAG	GCGGCGAAGT	GCAAGAGCTC	420
40	GTCAGTCTCG	CCGGAGTGGG	AGCAGAGCAG	CAGGGCGTGC	CCGTCGGCGA	CGATGCCGAT	480
	GTCGCCGTGC	ATGGCCTCCG	TGGGGTGGA	GACGGCGGCG	GGGATGCCGA	ACGAGTGGCA	540
	GGTGGCGACA	GTCTTGCGCA	TGATGCCGAA	GGACTTGCCG	CAGGCGACGA	ACACGAGCTT	600
	GCGGCCGTCC	GCGA					

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1542UP

	GATCATTTAC	CTACGCATCG	GCCTGCCGCG	CATTGCCGCA	GACGGATCGC	TGCGAGACGG	60
50	CTACCTGGAA	CACTACTACG	AGAACGCGTA	CGCCGCCGCC	CTTCTGGACG	GCTGCCGTGT	120
	GCAGCGCCTG	ATAGGACTCC	ACGCGCTGCC	GCTGTAGCGA	GTCA TGCCGC	TGTGCCGGAC	180
	CCGAGCGGTT	TGCCGTCTCG	GGAGCCTCCG	GGTTGCGACC	GCTGGAAAAA	GGAGGGCCAC	240
	GCTGGTATAT	AAACGGCACA	CGAGCCATCC	GGCGTCAGGA	ATAGCGTGAG	TCGACAAGAT	300
	GGGTGCGGAA	CACGGTCCTA	AGGACCTTCA	GAAGAAGCCT	GTGAGCTTTT	CCAACATTGC	360
	CCTGGGAGCG	GCGTTGAATA	TGTGCGAGGT	CACGACGCTT	GGGCAACCGC	TTGAGGTCAC	420
	CAAAACGACC	ATGGCCGCAA	ACCGGCAGTT	CGGCTTTTCG	CAAGCGGTGC	GGCACGTTGT	480
	GTCCCGTGGG	GGCGTGTTCG	GCTTTTACCA	GGGGCTGATT	CCGTGGGCTT	GGATTGAGGC	540
55	GTCACCAAG	GGCGCGGTGC	TGCTGTTTGT	TTCTGCCGAA	GCCGAGTACC	AGTTTCGGCG	600
	GCTTGGTCTC	AGCAACTTCG	GTGCAGGCAT	CCTGGGCGGG	TGTTGCGCGG	CGTA	

1544RP

	GATCTCAACA	AGATCAATAG	GCATATCCTG	CCGGCTAGGG	ACACCACTGA	ATTTTATGAC	60
	GAGAAGGCCG	AAGAGTTCGA	CCGCAGTGTG	AGAATGGAAG	AAATGGCCAT	TCGGATGGGC	120
5	AAACGGCGCA	AGTGGCTGAT	GAAGCACTGC	GAGGGCGATG	TGCTAGAAGT	TGCATCTGGT	180
	ACTGGTAGGA	ATATAGATTA	CCTAGACTTG	AGCAAAATCG	ACACAATCAC	CTTTCTGGAT	240
	GCGTCTAAGA	ATATGATGAA	GATCGCCAAT	AAGAAATTCA	GAGAAAAATA	CCCACACTTC	300
	AAACAAGCTG	CATTGCTAGT	TGGAAGCA	GAAGATTTAG	TGGACCTGGC	GACTGGGCAT	360
	TCGCCTCAGC	AACAGAATCT	GGAATTGGTC	AACTCTCCTG	AGCAGGTGAT	CCCGGAGTCC	420
	AAGCCCAAGG	TTAAATACGA	TACCATCATC	GAAGCCCTCG	GTCTGTGCTC	TCACCATGAT	480
10	CCTGTACGGG	CATTGAAAAA	CTTTGCGAAA	TTGCTAAAGC	CTGGCGGAAG	AATAGTTCTG	540
	CTTGAGCATG	GCAGAGGGAC	CTATGACGTT	GTGAACAAGA	TTCTAGACAA	GAGAGCCGAG	600
	CACCGTCTCG	AGACCTGGGG	CTGCAGATGG	AACTTGATA	TTGGCGAAAT	TCTAGATGAC	660
	TCTGATCTAG	AATCGTCACC	GAAAAA				

1544UP

	GATCAAATTC	CAATCTCCGT	CAGCGTCAGG	CAGCCGCGTT	ATGTGTTGAA	CTCTTCGCTG	60
	CTTCTCTTCT	CTTCGCTGAA	CCCGCAAGAA	AATTCCACCT	CACGCCGAAC	CAGAGGCGAA	120
	AAACTGAAAA	TGAAATAAGG	CGCCGGCTTC	CGAGGACGTT	GCGGGCTCGT	GCAGCTCTAC	180
20	TTGCAATACC	CGCAATAGGA	CTACCAGACC	TTATTAGACA	CTGTAATATG	TGGGCAGCAG	240
	TAGGTGCAGT	CTACAAACTT	TTATAGCGCA	GCCGGGCGTA	TTACTCTTTT	CTGCTCCCGC	300
	GTCCGCGATA	AGTTGTGACT	CACAGTCCCG	CGGACGGAAC	GTGCGACCGA	GTGCGGCGAA	360
	TAATGAGTAA	TGTTCTATGT	ASTGTTTGCT	AGGGGGCTGA	AGGCTATGCT	CTGGGGTAGC	420
	TGGAATGTCA	CGCAGAACAT	GGGCTTCGTA	GGTGCCACTT	TGCGCACGAG	GTGGAACGAC	480
	AGCGCAGTCA	TCGGCAGGAT	GTCTGCGCTG	GTGTGCATTA	TCTCGAGCAC	ACGGCGGTGT	540
25	ATGCGGGCGT	GCAGGTCTGC	TGGCGCGGGC	TCGGGCTCGT	CGGGGCTGTA	TTTCTCGAAA	600
	CAGTGACAGT	GGATGTAGGG	CAGCACCAAW	TGCTGGGTCTG	GCAGCGGCGT	CCTCCGAGAT	660
	CCGTGGCGCG	AGTACAGCCC	GGC				

1545RP

5	GATCATTAAT	CAGCCATCGC	ATACCCGGGC	AAGATGACCA	TTAGCTCCTG	CTTTTCGACAG	60
	AAACAACGGA	CTATGGGTAT	AGAACTTGAT	GATAGAAGGT	TGAGGCATTT	AAAAAAGTGG	120
	CTAGACCGGG	CTTTAGATCC	GCCTACGACA	GACGAGAGCG	TCACAGCCCT	TGTGAAGGAC	180
	TATGTACTAC	AGGTACTACT	AGAGTGCAGC	ATCGCAGCTG	TGAAGGGCCG	AAAGAACGAG	240
	TTCTGCGAGC	AGATGAGCCA	GTACCTGGCA	GGTATGOTGA	AGGACCACAG	CTGTCTAGAT	300
	GGGTTGTTTT	ATCAGCTAGT	GGACTTAGGC	GAGCCTCCCG	CGGGGAATAG	TTGCGGGCGA	360
	CAGCTGCGTG	TCCTGAAAAT	CCCAGCGGAC	CGGCTTCGCT	GGGAAACCTT	GCGTGCGGAG	420
10	TTTGCGCCTT	TTGGAGCGGT	CACCAGGGCG	AGGATTGATT	ACGTGCATCG	TGAGGCATTC	480
	TTGGAGTATG	CGGATGCGGC	CAGCGTCGTC	CGATGTTGTT	CGGTCCGGAA	GGCTTTCTTG	540
	GGGAACCGGT	TCGTTGAGGT	GCAGCCCTGC	TCGCGAGGCG	TGGGAATCAC	TAAGCGGTGT	600
	CGACGTCTGG	CCGCCGGATC	ACGAAACAAC	TGTGCCCGAG	CATGGATCAT	CTGGGGTGCC	660
	TCCGCGAACT	GGTGTGTGCT	TGGATCGTGG	ACGTGCGCCT	CCGCCTGTCA	TCTT	

1545UP

15	GATCATCTTG	CAGGGACCGC	WCCACGTGGC	GTAGAAGTCC	ACGACCACGA	GCTTGTCCGA	60
	GCCCCACGGC	GACTCAAATT	CAGAAAGGGA	CTTGATTTCC	GACACCATTG	CGTTCTGTGT	120
20	GGCTGACTGT	ACCTTGTGTA	TACGCAGTAC	CCAGGAAGCC	GGGCGGAGCC	CCGCCTTTTA	180
	TACCCGGCGC	CCTGCGGTCA	CGTGTCAACA	CGTGCGGGT	CTCCCTCTA	TTTCCGCTCA	240
	GGAGATAAGG	ATGACAAACG	CGTCTCGCG	CGGTCCGCAT	TGACGTCTTC	GACAGCAATG	300
	GAACCTCTGC	TATAAGCGGT	GTCTGCGCGC	CGAGCCTTCT	CAATCGTCCG	TCTCTCTGTT	360
	CGCTTTGTGT	ACGCCAGGCG	CGGGTTTGTT	TACGTTTCGG	ACGGGGTTGG	ATCTCCAACG	420
	CACGGTCGAA	TAACGAACAT	GAAAGCCAGT	TGTACAGTAG	CTACACCCCA	GCAGACGAAG	480
25	CATCAGCAGG	CAGTTGAGAG	CGCGTACGAG	AAGTTCCGTT	ATAGAGCACA	CTCGAGACCA	540
	TAGAGGTCAT	CCGCTAGGCG	GTACTTCAGG	TCAGGC			

1546RP

30	GATCTTGCTG	CTATCCAGAA	ATGGGAAGTT	CTTAGACAAC	GGGGAATTAA	GCCCCTTTTC	60
	CAATATTTTG	AGCGTCGTTT	CATAGCTCGG	AAGACGCAGC	AGAAGCCCCC	CCAGTAGTGT	120
	CTGTTTCATGT	TCGCTCATGA	AAGGTGTCTC	TATCAAATCT	AGCTCCATCA	TCGCAGAGTA	180
	GTTATTATCT	TTCTTCCAAG	ACAGACGCAC	ATGCCGCAAC	TTGTCAGGA	TTACAGTAAA	240
	ATAATGGTAG	AACCGCGGAC	TCACAGAAGC	GACGACCGCT	CGAAATGAAG	TCGGCCCGTA	300
	AAAGATCGTG	CGGCCCTGCT	TCTCTATCAC	AAGATGGAAC	TGCGAAAGTC	TGTTACCGGG	360
35	GGACACCGTG	CCCATAACGT	GCTTCTGCAT	GAACAGCTGC	GGTACCATCT	CGCTCTTCAT	420
	CGCGCGGAGC	TCAGTCTCAA	GCTCGTCGAT	CCGTCCGAGC	AGCTCCACAT	TGGGCGTCCA	480
	GCTGAACAGC	TCCCGTGAGT	TCACGTCTGT	CGTAAACTCA	GACAGGTACA	CACACTCGGG	540
	CAGGCCCTTC	CCAATACATG	TAGAGCACTT	CGGCCGCGCC	TTGTTGCACT	TGACGCGCCG	600
	CTTGCGGCAG	AACACGCACG	ACTTGCTGAC	CTTCCGCCTG	GTTTTACAA	TCTTGCCATC	660
	GGACTCTGCC	ATCCCGCCAG	CTTCAAGCAA	AATGAGTAGG	TCATATTATT	TACCTGCTGG	720
40	TAATCTTGAA	TAATGCTCAC	T				

1546UP

45	GATCGCGGAC	TGGAACACTG	GCCGGAGATG	CGCGCGGCCA	TCCTGGTGGT	TTCTGCGGAC	60
	CGCAAGGACA	CGCCATCGAC	GAGCGGTATG	CAGCAGACGG	TGCACACGTC	GGACCTCTTC	120
	AAGGAGCGCG	TCGCGACGGT	GGTGCCGCGG	CGGTACGGAG	AGATGGCGGC	GGCGATCCGC	180
	GCGCGCGACT	TCGCGACGTT	TGCGCGCCTG	ACGATGCAGG	ACTCGAACTC	GTTTCAAGCC	240
	ACCTGCCTGG	ACTCATTTCC	GCCGATCTTC	TACATGAACG	ACACTTCGCG	CCGGATTGTC	300
	AAGCTGTGTC	ATCTGATCAA	CGAGTTCTAC	AACGAGACCA	TCGTGGCGTA	CACGTTTGAC	360
	GCGGGTCCGA	ACGCGGTGCT	CTATTACTTG	GCGGAGAACG	AGGCGCGGCT	CTGCGGCTTC	420
50	CTCTCTGCCG	TCTTTGGCGC	CAACGACGGC	TGGGAGACCA	CGTTCTCGAC	GGAGCAGCGC	480
	GCCACCTTCG	CCGCGCAGTT	CGACGAGTGC	GTGCGCGGCA	AGCTTGCGAC	GGACCTGGAC	540
	GACGAGTTGC	ACAGAAGAGT	TGCCCGCCTC	ATCTTCACGA	AGGTCCGGCC	AGGCCCCCAA	600
	GACACTAAAT	CCTCGCTCAT	CGACCCGAGA	CGGGCCTGCC	CGCTGACGCT	ATTCTCTGCG	660
	TATTTTCTGC	TCTGTATACC	CTGCCAGACC	GCGCTATATA	TATAGAA		

1547RP

	GATCCTCCGC	CTACACCAGA	ATATTTCTGG	CCAATTAGTT	GTTCACCATC	GCCCCGAACG	60
	TTGGTGAAGC	CACGGCCATA	CGTGCCATG	CCGAGTGCAA	TTTTTCTTGG	GCTGACCTTA	120
5	AATGTGTCGG	TCATCATGAG	TATCGCATCA	TGTGCATTCA	ACTCATCAAA	GTTGTCAATA	180
	CCCATATCTT	CATACCGACG	CTTATCTAGG	TGCGATTGT	ACGGCGAATT	CGTAGCATTG	240
	TACAAGTTGC	TATGGTAGCC	TGTTGCTCT	GACCATGCAC	CGTGGTAGTC	GTATGTCATC	300
	ATATTCACCA	TGCTGAGATA	CTTGTTCATC	TCCTCAACCG	GGAAAATGCC	AAGTGTCTGA	360
	GGAAAGGCCG	GTGCTGCCAT	GCTTAAAGTG	AAGCGCGGTT	CTGTAGTCCC	GCCGGGGCCC	420
	CAGATATTGT	CTTCCAATTTC	GTCCATCTTG	TGTCGCAAGC	GGCTACACAT	TTCTAGATAC	480
10	ATCTGGGGTT	CGTAGCCATC	ATCCTTAGGG	AACTCCCAGT	CAAGATCTAT	CCCATCGAAG	540
	CCGTACTCAA	ACATTGCGTC	GATCGCCGAG	TCGATGAAGT	TGTTAAACTT	CTCCTCGTCA	600
	CGCACAATTT	TATGGAACGG	CTCCCGATTG	GAACAGCCGC	CAACGGGCAT	CATGAGCTTG	660
	AAATCGGTCC	CTGGCCGCGT	CTTGAGGTAA	TTAAGCTTCG	CCTATTGCCC		

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1547UP

	GATCTCTGAG	GGTTCCAAGG	CAAGCCCGCC	GGAGCTTGCC	CAAATTGTGT	CACCCGCTCT	60
	CGAGTAGATG	GTGGCCTTGT	CGACCTTCCC	GGTTGCTAAC	AAGTTGTCAG	TGTAGGCTAA	120
	AGCTCTAGTT	AGTACCCACG	AACGGGCCAC	GAGCAGAACA	CGTAAAAACA	CATACCTTGC	180
20	CAAGACATGA	TGCGTTCCGG	ATGAAATCTG	AGTTAGTGCT	AACACTCGCA	GATGCTCTGG	240
	TGAGTGGAAT	CTACGTATCA	ATAGTATTGA	TTTGTCAATA	AATATACCTT	GGCTTTTGT	300
	AACTTTTTTA	TATAAGGGGT	TCCGATCTGC	TGACATCATA	GCACACGAAT	TAAGTATCCG	360
	GGTAACGAAC	TGCCCGGGTA	ATGCGGGGCA	CAGGGCAAGT	GCCGGGTAAAC	GGCATCCACA	420
	TACCGCAGAG	ATGCACTGGC	GGCTACATAC	TGTACACAGG	CTCGCAGCTA	CTCGTCGTCT	480
	GAGTCGAGAA	CAGCCACCTT	GCGACGCTTG	AGAGCGACCT	CTTCATCTGC	GCGCGGGGCC	540
25	GGCGGGGCAG	CAGCGTACTT	GGCTGCGCCC	TCGCGTTTCA	GCTGCTGCAG	ACGCGCGGCG	600
	TTTAGGTC						

1548RP

30	GATCATCATT	GCTCGGTTAG	CGATTGCCGG	CAATTTTACA	GCTGGTTTCAT	CGCTAGGCGG	60
	TAAGGCGACC	GCGGGTAGTT	TCCTGTCTTA	CGGGTCCGTG	GTGTTTGGTT	TTGCATCGGG	120
	ATGGACAACA	TATGCTGCAG	ACTACACTGT	CTACATGCCC	AAAAATTCTA	ACAAATACCG	180
	CATCTTTTTC	TTTATGATTG	CGGGTCTTGC	GACCCCGTTG	CTGTTTACGT	TGATTCTTTG	240
	AGCTGCTGCC	GGGCGCTGTG	TGCACACAAA	TCCTACGTGG	GGCGAATATT	ACAAAAACA	300
	TTCCGTGGGA	GGTCTGTGCT	TTGCTATACT	GGCTGAAAC	GCTCTGGGCG	GGTTTGGGCA	360
35	GTCTGCTGTC	GTTGTACTGG	CCATGTCCAC	AGTTGCAAAC	AATATTCCAA	ACATGTATTTC	420
	CATCGCTCTC	AGCACCCAGG	CGCTGTGGAG	TCGTTTCGCG	CGTGTGCCAC	GAGTGTCTTG	480
	GACCCCTGGTC	GGCAACGCAT	GCAGCTTGGT	CATTGCAATC	GTTGCGTACT	ACAAGTTTGA	540
	GACCTTCATG	ACCAGCTTTA	TGGATTCAAT	TGGCTACTAC	CTCTCCATAT	ACATCGTAAT	600
	ATGTGTCACT	GAGCACTTCC	TCTTCCGCAA	GGGCTTCCGT	GGTTACACGT	CAGCCACTGG	660
40	GAACGTCCCG	ATCTTCTCTC	AGCTGGTTAC	GCTGGCTGCG	CTGCGC		

1548UP

45	GATCGACAGA	TTACAGTTAC	AAGCGAGAGT	TCGGCCTATT	TAAGGAACAG	AACCTATACC	60
	ACATTTGAAG	CTCGAGTTTT	GGCACGCCAA	GACCGATTGT	CGGATTAAGT	ATCTTGAAGT	120
	TTGCACTCAG	ACTCAAGAAC	TACTATTACG	ATACTATAAC	AAAGACGATG	ACTAGCACAG	180
	CCGACCACAA	GCAGCCCAT	TCGTTGAAGG	TTAACGGGGC	TCTATTTCGAC	GTCGACGGGA	240
	CCATCATCAT	CTCGCAGCCC	GCGCTAGCGG	CCTTCTGGAG	GGAGTTTGGC	AAGGACAAGC	300
	CGTACTTCGA	TGCGGAGCAT	GTCACTAGTG	CCACCCACGG	CTGGAGAACC	TACGACGCCA	360
	TCGCTACCTT	CGCGCCAGAC	TATCTGAGTG	AGGAGTACGT	GACGAGACTG	GAGGGCGAAA	420
50	TCCAGACAAA	TACGCGCAAG	TTCTCCGTGG	AGGTTCCCGG	CGCTGTTACG	CTCTGCAATT	480
	GCCTTGAACR	AACTTCCGAA	GGAAAATTGG	GCCGTTGGTA	CTTCCGGCCC	CTTCCAGATG	540
	GCACCAAGTG	GTTCGATGTC	CTCGGCATCA	AGCGTCCTAG	CACCTTCATT		

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1549RP

	GATCTGCTTG	GTCTGACCAC	CGAAACCCGA	CTGCTTACGG	TCATATCTTC	TCTTACCCTG	60
5	AGCAAACAAG	GAAGCCTTAC	CGGCCCTGTA	CTGGGTCACC	TTGTGCTGGG	TGTGCTTGCG	120
	GCAGGCCTTG	CCCTTGCACT	AAGTCCTTCT	GGTCTTTGGA	ACGTAACTG	CACACGTTAG	180
	TATACGTCC	CTTGCGAGT	CCCTTTTCGA	TCTGCAGCCG	CGCCGTCAGA	AGGCCCTGCT	240
	GTAGCGAGCC	GTGGCCCCCT	GGCGGCGCTC	CGCGCTTCCC	CTCCGTCATA	TTGAACATAC	300
	CCATTGCGAG	AAGTAGCTTC	TGTGATGCTC	TGTGCTTACT	ATCAAGCAGG	ATGACACCCG	360
	GCCTTGAATC	CTGAAATTTA	CCATGTTTTT	CGCTTCGCGA	GCTCGGCCCG	CGGGCCGGCC	420
	GGCTGCCGCG	CCGGAAGGTC	CAGTGCTGCC	CGGCCCTGCGT	CGCCCCAGTT	CACCCGGGCC	480
10	ACCACGCAGC	GTGGTGATGC	ACGCATGTGC	AGTATGTGTG	GGTGTGAAT	AAATAGATGT	540
	ATGGGTGTAG	TCACATGTTT	GTCACAGGCA	CTCCTCCGCG	GCTAACGCCT	CGAGATTGGC	600
	CAATGCGTGT	GGCGGCATAG	GCGATGGCAG	CCATGCCTTG	AGCTCTGCGC	GGGGTTAGAG	660
	CCCAAGTCAT	TAGACTGCGG	CACTGCAAGC	GTCTGACCGG	CAGGTTTTAA	GCTGGTGTGT	720
	GGCCCTGCGC	TACGTT					

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1549UP

	GATCCATGTA	TAATCACCCC	ACAGCACCTT	TTGCAGGTTT	TCGCGCTTGG	CCCCCAGCTT	60
20	CTGCTCGTAG	AACCTTCGAA	ACAGACTGAC	GTTGAACCCC	CACCCATCTG	CAGCAGAGGC	120
	AAAAATCACA	TTGTTCCGGG	ACGGGTGCAA	GTATATGTCC	GCATCATCCC	GCTCCACATA	180
	CTCGGCCTGG	GCGTCCCTGT	CCAGTTTCTC	TCTCCACGAG	AGGTTCATCA	GCAGCCGCTC	240
	CCCCGGCAAAG	AAGGACCCCA	GTACAGAGTT	GACCTGTTC	ATCGTCTTCG	ATAGATGCAC	300
	GTAGGCCTCC	TGTGGCGTCA	GCTGGAGCTC	CGTGATCAGC	CGATCGATCT	TGTTTCAGCAC	360
	CAGGATTGGT	CTCAGCTTCT	CCGTCCAGCA	CTGCCGCAGC	ACCGTAATCG	TCTGCGAACA	420
	CACACCCTCG	ACCACGTCCA	CCAGCACGAT	CGCGCCATCA	CATAGCCGCG	ACGCCGCGCT	480
25	AACCTCGCTG	GAGAAGTCTA	TGTGGCCCGG	AGAGTCGATC	AGGTTGATTA	AATGTTCTGTT	540
	GACCAGCGGC	TCGCTGCTCC	CCTCTGTGTT	GTGAAGCACT	CCGAAGTTAC	AGAGAAATCG	600
	CACTGGACTC	CATCGTGATG	CCTCGCAGCT	GCTCATCTGG	CCGCGAGTCT	AGGAATCGCA	660
	CTTTCCCCGC	TAACCGCTGT	GAGATAATAC	CCTTGATGTC	GAGGAGG		

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1550RP

	GATCGAGTAC	ACAAAGTACA	TGGATGCTGC	CAATAACTAT	AGTCTGAAAT	CAATGCGTTC	60
	CTTAGCGAAT	GCAGATGAGT	TGGCGCAGCT	GGCATCATTT	AACTCCATCA	GCCATTATTT	120
	ATTGGCTGAA	TCGCCATCTG	TCCAGACACT	ACAATTTTTA	TTAAGCTCAT	CTAAATTGTA	180
35	CCCAAAATTA	ACGAAGGAGA	ATCAAGAATC	TGCAATTATC	GAAACACTGC	TGTCTCTCAG	240
	TGAATTTACG	TTGCTGCACG	ACTTCTCTCT	CCAGGCAGGT	TTCCAGGTCTG	AAAAATCGGT	300
	CATTTTGAAG	TACTTTTGGC	GCTTTTTC	CAGCGCACCA	AATGGGTCCA	GGGGACCGGC	360
	CAGAAATGAC	AAAGGCGAGG	AACAATCTTC	GCTTACTGCC	CAAAAAGGAC	TATTATTATC	420
	TTGAGACTCT	TCTTGATGTC	GCAGACGCTT	TGGCAAAGTA	TTGCTAAGC	TACTCACGTG	480
	GACAACCCCT	CAGACCATCG	CATATATTGG	ATCTCAAAGA	TGATCCATTC	AGAATCATAA	540
40	GCAAACCTGCT	AGAAACGAAT	CCCAGTCTGT	ACCGTGACGT	TGAAACGACT	TTGAAATCC	600
	TCAAGCAATT	ATATGAAGGA	TTGCAACTGC	AGCCTCATGA	TCCAAAGTAC	ACAAGTGAAT	660
	ATACCCGTTT	GCTAGTCTGT	CACATTGATT	GTGCATTGGC	AAATAT		

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1550UP

	GATCTCCTCC	CGCGATATCA	TGTCTAGCCA	GGATTCCAGG	TGTTTCAGTAT	CGCTCATGTG	60
	TGCCGGTTTA	CTTGAATCCA	TCCATTCTGC	CGCAGCCATG	ATATACTTGG	CGCGATACCC	120
	AAACCCCAA	TCCCGCAGTG	CGTCTCGCT	AGCGCTTCC	ATCAGCTGCT	TGCTGGTGGG	180
	GAATGAGTAG	TATGGAGTAC	CGTCGAGCTC	GCCGAGGAAG	CTCCCGTACT	GCGAACACAG	240
	TGCATGGCAC	ATCTTCGTGA	TGCGCCCGAT	ATTGTTGTTG	CTAGAGCAAA	TAAACGAGCA	300
50	CAGTGTCTCC	CAGGGTTCTT	GTCGCAGTAT	TCGCACGCCA	CGATGTGTTT	TCCCAGTGAA	360
	ACGTGTGTCT	GCTTCTGCTT	ATTCTGCTAA	CAAAGCCTCT	AGGTTTACCT	CCATCCGTAG	420
	GTAGCGCATC	AGCCATTGTC	GTGCCGCCCT	GCTGCAGTGC	TCATCTTTAT	TCCCAGTAC	480
	GCTGAATTCA	ATACTGCACT	GATCGGGCTG	CTTCAATACA	ATAATACGAT	AGCCAGCTT	540
	GTCATTTAGT	AGCATGCTCG	CGGAATAGTA	CTTTTCTCA	TGATTCAGGA	TCCACCTGAA	600
	CGCTTGACCA	CATTGCAAT	CATGTCAGG	GACTATTTCT	CCCTTTGGGA	ATATCAATCT	660
55	GTTAAACTTC	ATAACTGTGC	ATACAGCACT	GACCTCGCTC	TAATAATCAG	CGTCACGGCC	720

CTGGCTCGAG CATGTT

1551RP

	GATCTCACGT	GAATCGGATA	TCTGCTCAAC	GGCCAATTCT	CGTATATTCT	GACGAGATCT	60
	TGGCGTCAAT	TACGTGCACT	TTGGCCGAAG	CCTTCGCACG	AGCTTCTACG	ATACAGAATG	120
5	CTGCCAGGTG	CATCTTAAAA	AGCGGGTTTA	CAGTGAGCCC	TCCGTCTCTC	AGGGCACCAG	180
	CCCCTAACTG	TACATAGTTT	CTGTTATGTA	GTTTGCCCTT	CCTCGCGATG	CCTGCCTCTT	240
	GTGGAACAAA	AACAGGCGGT	AGAAGGAAAT	TCCCCTGCGT	CATCGGTATC	GGACGGCGTC	300
	TGCCTGGATC	TGCGGAGTAG	CTTTATGAGC	CATTAGTGAG	GAACGCCAGT	TTCGACGACA	360
	GATTTAGTCT	TTTCTGTGTT	CCTGCAACAA	GGCTTGGAA	GTATCAGCGC	GCTGGCGCAG	420
	CGACAGGCGA	CACCGCTTCA	CATAGGGAGA	GGCCACCCAC	TGAACACGCG	GTGCACTGTC	480
10	AGGGGGCGCA	CGCTACTGCC	TACAATGGTA	TCGTCCGCAA	ACGGCAGGCC	AACCGGCAGA	540
	CGGGGCATTT	AGATCTAAAT	TTATCAGCCC	ATGGACGGAT	GGATTTACGG	CAGCGTGTGG	600
	CCGCAGCACG	GGGCACGCCA	GACTGCGAGG	TGGCAAAATA	TTCACATAGC	AACCTGCATT	660
	ATAAACATCC	CAAGTCATTA	AACTTACTAA	ATATTGTTGC	GT		

1551UP

	GATCCCGGTG	AAGCTGCGCA	ACTGCACGGT	GCGCTACGAG	GACCCGGGGC	GCGCAGTGGA	60
	GCTGGCGCAC	TACGACTACT	CGAGCGAGCT	GGACGCGTAT	CTGAAGGATA	TCGAGGTGGA	120
	GTACGAGGTG	CTGGCGTACA	ACTGGCCGAC	GTTTCTGGCG	TACGTGCAAG	AGCTGGAGGA	180
	GGGGGAGTTC	CGCGAGTTCT	TCTGCGAGCT	GCTGCCGTAC	GCCGCGGAGA	ACGAGGTGTA	240
20	CGGCGCGAAG	CTGTGGGCGG	GGCTCGTGAA	GGAGCGCTCG	ATGCAAGGAG	TGATCACGCG	300
	CAGAAAGCGC	TCGTCACTCA	CGCCTTGTCG	CGCGCGAGGA	GGAGACGCGC	CGACGGCAGG	360
	TGGAGGACGA	CTGGCACAGC	AAGCTCGACG	AGCGCGACCG	CTTCCTGCGG	CTGCGGAGCA	420
	AGCTCGTGCG	CAAGCGTGCC	AAGAAGACCA	AGGACGCGCT	GTGGACGGTG	CTGTGGGAGC	480
	GCTTCCAGAG	CGACGCTAAG	ATCGAGAAGA	TGCGGCGCGG	CAACGAGGCC	GCCACGCCCG	540
	AGGCGGGCGG	CGACGAGCTC	CTGACGCCGG	CGGAGCGCTA	CGCGCTGGAG	CAGGGGCAGG	600
25	GCTTCCTTGG	CGCTGTGCGT	CCCTGTGCGG	GAGCCGGGCG	CGGCCCTGGC	CGTGCCCTGC	660
	AACGAGCTTC	CCGATGAATA	CTGCATCACC	AAGACTGACT	TCGACCGGCT	CGCTAGCCAC	720
	GGCATCCCGG	TCGAG					

1552RP

	GATCGTCCGG	TCATGCCACC	ACAACTTCCA	CGTCCACTGC	ATCTACCAGT	GGCTCAACAC	60
	CTCCACGTCC	AAGGGCCTCT	GTCCGATGTG	CAGGCAAGCG	TTTTCACTCC	GGGAGGGCAT	120
	CCGCATTAAAC	GAGCCCCACC	GCGACAAGTT	CGAGAAGGTG	TTGATGAAGG	CGCGCCAGCA	180
	GAGCGTGGTG	AGCGTCCGCG	GCGCCAAACC	GGTCCGGGCG	GACCAGGACG	ACGTCAATCAT	240
35	CKACCAGGAG	TTCACTCCGT	GACACTAACT	AGCCTGTGTA	CCCATGTAAA	AATAATGCTT	300
	CCAACCAGAT	TCGAACTGAT	GATCTCCACA	TTACTAGTGT	GGCGCCTTAC	CAACTTGGCC	360
	ATAGAAGCAA	TACGAGCGTC	TAGCGGACTG	CGCCGGGCTA	TATGCGCCCG	GCGTGACCGC	420
	GACGAAACGC	TGGCGCCCAA	ATACCTGATC	CCAGGTTTCC	AACGCTGGTC	ACGCAACTTC	480
	TGCCACGTGC	ACTGCACACC	ACGCCAGCAC	TATATAGCCC	CGCACCCGCC	AGGCGTTCTT	540
	GCCAGGTCAC	CGCGTCCAGC	TGTGCTGCA	GCATTCCACC	TGAaaaaagTT	TCACCAGCAG	600
40	AAAGACTTTT	CCACTTCTCA	ATAGCACTTC	TATCCCTTAT	TTCTCAGCA	GTTTTGCAAT	660
	GAGCTACaCT	ACCAGACAGA	TTGGAGCTAA	GAACACCTTG	GACTACCGGG	TGTTTCATCGA	720
	GAAGGCGGCA	AGGTGCTCTC	GCCGTTCAC	GACATCCCAT	TGTaCGCGGA	nGAGAgAACC	780
	aATCTTcAAC	aTGGTGGTGG	AnAT				

1552UP

	GATCTTGCAG	ACACGCCTGC	GCCCCGTAGTC	CGTGCGAGTG	CAGACTGCGT	CGCCGAATAA	60
	ATAGCTTTGT	GCCAGGCGGT	CGCCGAGGCG	TTGCGGGACT	CACCGCATAA	AAGAAACACG	120
	CTGCGGGCCG	GCGGCCGCAA	AGCAGCCAGG	CGCAACGGGC	GCGCCGCAA	AGCAACCGTG	180
	ACACACGATA	TGGCAGATTTC	ACRTACATAT	TATACATAGC	CGGCCGCGGC	ACGCGGCTCA	240
50	GCCGCCGAAG	CCGTACAATG	TGCGGCCCTG	GCGCTTGAGC	GCGTACACGA	CGTCGAGCGA	300
	GGTGACGGTC	TTGCGCTTGG	CGTGCTCGGT	GTAGGTGACG	GCGTCGCGGA	TGACGGACTC	360
	CAGGAACGAC	TTGAGCACCG	CGCGCACGTC	CTCGTAGATG	AGGCCGAGGA	TGCGCTTGAC	420
	GCCGCCACGG	CGGGCCAGGC	GGCGGATGGC	GGGCTTGGTG	ATGCCCTGGA	TGTTGTGCGG	480
	GAGGATCTTG						

1554RP

	GATCAAACTA	GGAATTTTGT	ATAATACTGA	AGAAGGTCCC	ATATTCAAGT	CTCTATCCAG	60
	CGATGATGAG	GAAGTGGGTG	AGATTGTGCT	GCACGACCTG	ATGAACAATC	TCGATTTCAT	120
5	AACTATGGAT	CATCCTGACA	GATCGAGAAA	CCAAACTCAT	CAAGATAGAC	CGATGATGAT	180
	CAAGAACTAG	TTTGAGATCC	CTCTGCTACA	AACACATACC	TAGATTTCTC	ATATTTTATA	240
	CTGAATACAT	ATAATATATC	ATTTAACTGT	CTTCATTCAT	GAGACGTCGT	CTAAGTTCTG	300
	TGCTGCTCAA	CTTGTTTTTC	CAC TTGTCAG	CCTCTTCGOC	CCCCAGTACG	TTCACCACAT	360
	GCACGGCTAG	CTTCCTCATT	CCTTTGCTCT	CACGCGTATC	GTTGATTGTC	TGGGCACCGG	420
	CCACAGTTTC	CTCACTCACT	ACCAGGGCTT	CGATACCAGG	TTGCTACCC	GTGGGCCCGC	480
10	ACACGTCTTG	TAACGCAAA	ATTTTGATTT	CCAGCCCCGG	TTTCAGCCTG	TGAAGGAAGC	540
	TGCACACGTT	ATCGCATCGT	TCGTGGAAGG	ACTGAAGCTG	CTCCCTGTAT	TTCTTGTTCC	600
	GCAGCAGTTC	TTCATCTGTA	ATCCCCACGA	TCAGCCGGGA	AGCAGTCACG	AGCGCGGCAA	660
	CAC TGAGCAA	TATTTTATGT	CCGTCTGTGA	AGTGGTCGAA	AGTGC		

1554UP

	GATCACTGAG	GAAATCAAAA	CCTTGAGCAG	CTTCCCTGTG	TTGCGGTTGT	ACGGTGTGGA	60
	CTGTGCCCAA	GTTGAGACTG	TCCTCCAGGC	CAAGGCTCCA	GGCCAAAAGC	TCTTCCTAGG	120
	TATCTTCTTC	GTCGACCAAA	TTGAGGCCGG	CGTGAAGGCC	ATCAAGGAGG	CTGTTTCAGAA	180
20	GCATGGATCC	TGGGACGACA	TCGACACCAT	TTCTATCGGT	AACGAACCTG	TGAACAACGG	240
	CCAGGCGACC	GTGGACCAGA	TGGCTGGTTA	CATGAAAAC	GGCCGCAAGT	GCCTCGCTGA	300
	GGCCGGCTAC	AAGGGCCCAG	TTGTTTCCGT	GGACACTTTC	ATCGCTGTAA	TCAACAACCC	360
	TGGTCTATGT	GACCTATCAG	ACTACATGGC	TGTCAACGCC	CACCCATACT	TCGACTTCCA	420
	CAC TTCTGCT	GCTATGGCCG	GCCCTTGGGT	TTTGCAACCAG	ATCCAGAGAG	TCTGGAGCGC	480
	CTGCAACGGT	AACAAGAAAG	TTGTCATCAC	CGAGACCGGC	TGGCCTACTC	AGGGTCAGAC	540
	TTACGGCAAG	GCCATTCCAT	CCAAAGCCAA	CCAGAAGATG	GCCTTGGAAT	CTATCAGGGC	600
25	CAC TTGTGGT	GATAGCGCTA	TCCTATTTAC	TGCTTTGAC	GACTACTGGA	AGCCAGATGG	660
	GCCCTACGGT	GTCGAGAAGT	TCTGGGGTAT	GCTATAAGTT	GCCGTGTGCT	TCTTTATGAC	720
	CTGTCTC						

1555RP

	GATCATACAC	GCATTGCAGG	TATACATTAT	AGTGCTCATA	ATTATCGGAT	TGCAAAATAGA	60
	ATGGGGCCCT	TACCGTAGTA	CTGTCTTGGT	AATGCAGCGA	CGCTCAGGCT	TAAGAAGCTT	120
5	TTTGTCTCTC	GTGTATTACT	AACAAAATAA	TTTCCTCGAG	CACAGGGAGT	AGAGATGAAT	180
	TACATAATCC	ATATGGACAC	CTCGTCACCT	TCCAGCGACA	TTAACATTTC	CTTATGAATG	240
	CCCAATAATG	GTGCCATAAT	GATGTGCTTG	GTGTAATGCG	CATTATAAAA	TGTATGTGGA	300
	TTATATATTG	TTTGTAGCAT	CTAGTAAAC	CATGGTAGCG	AGGTCTTTGG	CCATACCCTT	360
	CTGAAGAGAG	ACATAGCAAC	AGTGTCTTGT	GCAGACAGTC	TGCCGTCGAA	TGTTGCCTTG	420
	AAGTAACCAT	GAGTACCAAG	ACTCTCCCTA	ATGAAGCCAG	AGCGTCCAGA	TTTCGTGAAT	480
10	AGTGGGATCG	ACTTGAACCA	CTCGACATCT	TCTGGCCTAA	AGAACATATA	GCGCACTGTG	540
	ACGACGCGCT	TGTGGAACCT	GAATGGATGG	GCAGTTAATA	TGATTCTCTT	GGCCAATATC	600
	CGTGTGTGGT	CTGCGTTCAG	GAACGTGCCG	TGGCCACGCA	ACGTCAGGCC	CTTTGGATCA	660
	GAAGGGTTTT	CTTTGAAGTA	GATGGCCGGT	GACTGGGTCA	GGTCCAAGGG	AA	

1555UP

	GATCTGGGAA	ACAAGCATTG	CAACCTAGTT	GGAATGGCTG	GCAATTAGCA	GCTGCGGCAA	60
	GGCAGATAAA	GCTAACTGTG	GCATAGTTTC	CGTGAGTTTT	GATTTCGGTTT	CTCAAGCAGG	120
	AATAGTTTGC	TGGCCGCCAC	GGNCGCCGTT	TTTATACTGT	CAGGCCAGCC	CGCGGCCCTG	180
20	CGGGTAATGC	CTGGCAGACC	CGCTCTAGGG	CACGCCGAAT	CGCCCGTGAC	AACGCCCTGC	240
	GCCGCAAGAT	GAGCACCTAA	AGGGCCGGCA	GCCTCCGCTA	GACAACCTGA	TGGTAACGTC	300
	GTATTGTAAT	ACTTAACTTA	TACAGGGTTT	ATTGATTATA	TTACTCAGAA	ACTGCCGTGA	360
	GACCCACAGC	CCGCCCGCCG	AATTGTGTAC	AGTAGGCCGC	AGCGGGCCGC	CCGCCGCTCT	420
	TAACGGTACT	TGTGGAACCC	AATGTCGTTG	GCCTTCTCTC	TGAAGCACTG	ACGGCAGATG	480
	TTCAAGCCGT	ACTTTCTGAT	CAAACCAGAG	TGCGAAGCGC	ACACGCGGCA	CTGGCGGGAG	540
25	CCCTTACCGT	AGTTTCTTGG	GTGGGAGAAC	CAAACGTTTT	CGTGAGCCAT	CTTGCTGTGA	600
	ATGCGTTAGT	ACTCTGTCTG	ACCGCTTGGA	AACGCTCCGG	CCCTCGTTGA	GCTGCCCACA	660
	CGCTCGGCGT	CTGCGGCGTC	CTCATTTGCC				

1556RP

	GATCAACCAG	TCGGCCGAGT	CCTATACGAC	CGGCATCAGC	CTGGTGTTCG	AACCTTCTCG	60
	TGACCCTCCG	ACGTACCTGC	CTAAGGATAG	TTTGCCGCCA	GAACACCCTG	ATGAGGGCTT	120
	CACGAGTGCT	TCTGCGTCCG	AGCTGCAGCG	CCGCTTTGCA	TTCAAGTGTC	AAAATCCACG	180
	AGTCAACCTC	GTAAATGACT	TCACGGTAGA	CGTATACCCG	GCCTCAACCT	TCCAGCTGCT	240
35	CAATGATAAT	ATCTGCTTGT	GTTTTGATAT	TCTGAGAAGG	CAGAAGTGGT	GGCACACCGT	300
	CTTATATCCT	ATTTCCCAAC	TTTTGCTGCA	TCAAGGCCAG	GATTCTGCGG	TAGGAGACGC	360
	CCCAGCACCC	GCAGCCCAAC	CCCCGCTCCA	CCGCCGCCGA	TCAAGCAACA	AGGGCTGTCT	420
	CCGAGCAAGT	GCGGCCGAGT	CAGCCACGCT	AGGGGACGAA	AATATGCACC	AACCTTACCTT	480
	AACGGAAATT	ATGAACAAGT	CTGTGATTCC	CGAAGATGAC	CGATGATGGA	TGACCGCATT	540
	GAGCTCTATG	TTAACGAGAA	CTACGCTTAT	CTGGGGACCA	GGAGGGTTGC	AGCTTCTATA	600
40	ACGATCCGAT	TGAGAGGTGG	GAGGCGTTTG	TAGAGTCACT	AAGACAGATG	CTTACGTAGG	660
	TATATAATTC	TCATCTCACG	CCTGGTATGT	ATGCGCTTGT			

1556UP

	GATCCGAATA	ACGTCCACAT	AAGGGAGAGA	CTAGAGGCTT	TGACTGCCCA	GCTAGCCAAC	60
	CCAGGGGCCC	AGCAGCCTCA	GCAGCAGCCT	CAACAGCAAC	AGATGCAACA	GCCTAGAGGG	120
	CCAGCACCCA	TTATGTTGCA	GCCAAACATT	CAGCAGCAAG	ACCAAAACAA	TCCGTTGAAT	180
	AACAAACCTG	CGTTCTACCG	GTCCCTCTCC	CACGGAGTTG	CGGTTGCCGG	AACAGAGTCC	240
	GCAGGCCACA	CACCAATGTC	AGGACGGCCT	CAGCCGTTGC	AGCAGTTGAA	CAATAACGGA	300
	AGTATCCTGG	AACCGTCATT	GTTGCCGCAA	AAGAGGCCTA	TGGAGGGTGG	AATGGATACA	360
50	TTGGTAAATG	CCATTTTCGA	CAGGAGTTTG	CAGCAACATC	AGAAGAAACA	TATGCCCTCT	420
	CAGAAACATC	CTAGTTTGGC	CTGGCTTACA	GGACAGCCGC	AGCAGTTACC	ACCCGATGCC	480
	GCTCCCATAA	TACCGCCCGA	AAAGAAAGGT	GCGCCTCTCC	CCCAGTTTCA	GAAAACCTGAA	540
	CCAGAGCATG	CGGCAAAAAG	ACTGAAGCAC	GAGCAGAATA	ACGTTTAAAG	GCAACCGGTC	600
	CGGTCTCGAA	TATACCTTCG	ATTACGCACC	CAGCTTCCAT	GGAAACATTCT	GGTCCGGGAG	660
55	ATCAGAATCA	CATTCTATCT	GGGCCTTCAG	TCCACGCAAC	CCACGTGTTA	CTCCGGTA	

1557RP

	GATCAGGCGA	GACATTGCGT	AGAAAATATCA	ATTGGTTCCA	GAGGAGATCT	GTCTCCTGGT	60
	CATTGTAGAG	AAGCGGCCAG	ATATAATTGT	CCAAAGTGAA	CTCGTCTTTT	TGAGAAAACA	120
5	CGCTTTTCATA	CACAGCGTCC	GACTTTTGGG	CTAGACCATA	AGCAAGGTCT	ATAACTTCCG	180
	TGGCAGTATA	ATTCCAGACC	GGCGGTGGTT	GCGGCGGGAC	AAGGGACTCC	CAGTACCCAA	240
	GTAAATCCTT	CGTCATTGAG	CTTTTTTAAAC	ACAGAGCCAA	CTAAGATCGA	CATGGTAAAC	300
	GACGCGATTA	MTTTTGTACC	ATTTTTATAG	GAGACCAGAT	ACATTTACAG	AAGCACCAAC	360
	CGCAATCGTT	TTAATCGGTG	CAATCAGTGC	CATTCTTGCA	GCTGGGTCCA	AACTCTAGAT	420
	TTACAAACCC	CGCACGAATT	AGCTAGTGTT	GAACCAGCGA	ACATGTAAGG	AGTTTCATTT	480
10	CCCCACACTA	TTGAAAACCTA	CTGCGGTGAA	CGCAGGTGGG	GCCGCATTAA	CGCCATATAA	540
	CTGTGCGGTT	TGATAACAAT	TATCTCATAT	TGTCTTTTTT	ACGCACAAAT	ACATCCACTC	600
	ATAAGAGAGCA	TTACGCCAAT	GCAGTCAAAT	ATAACGGAGA	ATTTGCATAT	CAGTACGTGG	660
	AATCGCAGCA	GTTGCTGTGA	TTTTACTATT	GATAACGGGC	GCAGCATAAG	GGCTGTGTTT	720

1557UP

	GATCCGCGGA	TTTGGGCACC	ACAGGGTAGT	GTGGCCGCAT	CAAAATGATGG	CACACACGCG	60
	ACGTGCGTAC	TCAGCCCCCT	TATTTGATTT	GAAGAACAGA	TTGATTAGGT	CTGATCCTAT	120
20	AGCTCTGGGC	AAAGCGGGGC	GCCTTGCGC	CTGTGTGGCC	GCGAAGTATC	GCTTAGGAAA	180
	ATGCTGGTGA	ATGTATATTA	TACGCTGACG	GGAGCATTGC	AGTCAGGTGT	CATGTATGGA	240
	CTTGCCCTGCG	ATTAACTATC	GCAGCAGCCA	TCTGATGCTT	ATGCACATCA	ACTAGCACAG	300
	CAGCCATATG	ATGCTTATTC	ATACCGGGCG	CCTATCGCCA	TCTTCTTCAT	ATAAAGGCAG	360
	TGTTGTACAG	ATAGGTGCAT	TGTCCTCTGA	ATTCCAAAAG	CTCATCGCGA	GTGCAGATGA	420
	AAGATCTCGC	TTCTTTGGTC	CCGCCGCAGG	CGGCACCATC	GTGGAATTTT	AGTGCACAAG	480
25	ATGTTATTAG	TCTTAGCCAT	CAATTGATCA	ACCAAACCGA	GGCGGTTTAC	CACAACGTGT	540
	TACAAGAAAA	GCCACCAACA	ATTGACAATT	ATATCATGCC	TCTAATATAC	CATGAGGAGG	600
	AAACAGACCT	GCTATGGAAC	CAGTTGGTGT	TTCTCCGCAA	TGTTTCCGCC	GATCCGGAGA	660
	TTCGTGAAGC	GTCGAAGAAC	GCAACATCCA	TGCTGGACGA	CTGGATTATT	GGCCTTACGT	720
	CAAAGT						

1559RP

	GATCCAGAAT	CCAAGTTGCG	TGTTCTGTAGC	AACCGCCGCC	TGCGCAGGTT	ACGAAGCAGG	60
	CTAAGGAAAA	GGGGCCTGGA	TGCCGAGCAC	ATCTCAGAAG	TAGTACAACG	CATAAAGGAG	120
5	AAAAGCAAGC	CAAGCGCTGA	AAACAAGACC	GTGCGTGAGC	GGACTCCCTC	ATCCGCTGCG	180
	GTGTCTGATC	CTAAGAAGCG	GGTAGTCGAT	GTCCCAACA	ACCCGCCAAA	CAAAGTATTG	240
	CTCGTACAGG	ACCTGCCAAC	AGACATTACC	GAGCAAGAGC	TGGTGGATAT	ATTGCAAAC	300
	GATAAGTTGC	TCCAGGTAAG	ACTAGTCCAA	GTCCGGCAAC	TGGCGTTTGT	AGACTACGCC	360
	GATGTACAGA	CGGCTACGGC	GGTCAAGAAC	AAACTGGGTA	CAAATTATGT	GATCAAAAAT	420
	CAAACAACCA	TCATAGGGTA	TGCGAAGTAC	ATAGGGCCGT	GGGGATATGG	GTTCTTACCA	480
10	GTGGGTGGGA	ACCCGACAGA	TCATTTAGGT	AACTACATAA	TGATAGTATT	TACMAGACTC	540
	CTTAAGTCGC	ACGTGCCTCG	ATGTCATTTT	CCAAAGAGGA	CTGTTCTCAT	AGCTGTGAGC	600
	AACGACTCTT	TGCTGCGTCC	TT				

1559UP

	GATCCGATGA	CCGTCATGTT	CTTCTACAAG	AACAAGCACA	TGCGATGCGA	CTTCGGCWC	60
	GGGGAACAAC	AACAAGATGA	ACTTCGTCTG	TGACAACAAG	CAGGAGATGA	TAGACATCAT	120
	AGAGACGGTC	TTCCGCGGCG	CCAGGAGAAA	CAAGGGGCTG	GTGGTGTCCG	CGTATGACTA	180
	CAACTACAAG	CGGATACAAT	AGAACATTTT	TTGCAGCTAG	TGTTGTCCCA	CGATAGAAAG	240
20	TTTATACGCA	ACCCGGCACA	GGCGCCGGGT	TGCTTGGCTC	CACAGCTGGC	GATGGAGCCT	300
	TGGGTAGGGC	CCTGCTGGCC	ATTATTCCTC	TGACTCGACC	TTACGCCTAT	AGATGGTGTG	360
	TGGGCTGTTT	TGGCGGTGAT	AGTGAAAATT	TTTTGGCTTT	ACGCTCCACC	GGGTTCAAGG	420
	CTAGGCAGCA	GGATAAGTAC	WTAGGTCTTT	CTGCTTCAGG	CATTATATAA	CCTCAAGCGA	480
	GCTTTTCAGA	CCTTTTAGGC	CAATATATCT	CCAAAGTGTG	GGCATCTGGA	CTATTAAGCA	540
	GGAGGTTCTA	TTCCAGCGTC	ATCAAGAAAT	CTGTCTAGAT	AAGAACCATG	GCCTCAGAGG	600
25	ATGTGCAACT	GGCCAGGAAG	GCTGTTGAGT	TTAACAGGGA	GAA		

1560RP

	GATCGCGCGG	AGGTTCTGTA	AAAACCTTCC	ATGCACAAC	CCCACACCAT	GCTCCCGCTC	60
30	GTCTCTTTCA	AACCTCTTCG	CACATAATGGT	GCCGTCTGTC	ACGACTTTAT	CATTCCCGTC	120
	AAACACTAAG	TCAGGGATC					

1560UP

	GATCCCTGAC	TTAGTGTGTTG	ACGGGAATGA	TAAAGTCGTG	GACGACGGCA	CCATTAGTGC	60
35	GAAGGAGTTT	GAAGAGGACG	AGCGGGAGCA	TGGTGTGGGG	TTTGTGCATG	GAAGGTTTTT	120
	ACAGAACCTC	CGCGCGATC					

1561RP

	GATCCAAATA	AGCGTGCGGT	CCATACAAAT	GAACGGTTGA	GTGAAGCTAC	TTGCTCGGT	60
	CGCGTATGAT	TACTCGCACC	AGGCTCTGGA	TGACGCCGGG	GGAGATGGCG	CTGCTGCTAC	120
5	GGCAGCCAAT	ATATACATCT	TCTATAGGTC	TAATTTCATGT	CCGCTTTTTA	AAAAATGGCT	180
	TGCGTCAATT	TGTATGTAGT	AGGCTATGTA	ACGGCTCAGT	CGGTGGACTC	GGCGAAGCGT	240
	TCCTGGATGG	AAGCAAAGAG	CTTTTCGAAC	TCTGCGTGGA	CCTCGCGCTC	GCCGCGGCTG	300
	GGCTCGAAGA	ACTTGGAGGA	CGAAACGGCG	TGTTTTCACGT	CGCCGGTTGC	CTCCGACAGC	360
	ACGGCCCAGT	TGGCGCCGTT	GGACACGCTC	TTTTGTGCCT	CGTCGAAGTA	GGACACAAAC	420
	GCTTTTCATCA	TATCGTAGGT	CTTCCAGATG	GGGCAGAATG	CGTCGTAGGT	CGAGTAACCG	480
10	TTCTGCTGCA	AGAAGTCTTC	TTTGATTAGC	GTCGCGACAT	CCAGTACGAT	CTTGCTCTTG	540
	TCAGAGAGCG	CGGACTTACC	GACCAGCTGA	ACAACTTGCT	CCAATTCTCT	GGCGTTGGAG	600
	AGGATCTCCT	TGATACGGTC	TCTCAGGACT	GGGAACCGGG	GTAATTGCTA	TCATAGTATT	660
	TGTTTAGGAC	GTTGGTGTTT	CTTCGAGT				

1561UP

	GATCGCAGTC	TGTAGTTGCT	GGTACTGGAG	TCTTGACTGC	TCTATGCCTC	TTGCTTGTC	60
	TAAAAGCGAA	GGAGACTCGG	TTACTTGTAT	GTTTTGCTGA	CCTTCTGGTG	GCAAAAGGGG	120
	TGGGGCGCGG	GGTCGGACAC	TATTTTGGAG	CGGAATCAGC	CTGAGTGTTT	TTTTTGTTTT	180
20	CACCAAGGGC	GGGTAACCTG	GCGCCAGCCG	CTGGCCGGCG	AGGTGATGGG	CCATGAGCAC	240
	AGCAGGTATC	GCGGGAATAT	GGAGTGTCCG	GGGGCGCGCT	TATGTAGACC	CAGCACGGTC	300
	CCCAGCCATC	GCGCGGAATT	GCGGCTTTTG	TAGAGTCCCG	CTAGGCGCGC	TGCCGCGGGC	360
	GTCACGCCCT	GTGACACAGA	CAAAATAAAT	TGGGCAAGCG	CGAGACACAA	GTCCACAAAG	420
	CCGCCACTGC	ACGAAGCTAT	GCACGCATTC	AAGGAAGACT	TACCCCATAC	CGTGGGTTTT	480
	GCCCTCGACA	ATGAGGAGAT	CACATPCCCC	AACTACGTGC	CCACGCATGT	GCAATCGTTG	540
25	CCCCACACGT	CCAACGGGAT	CCGACAGCTA	GTCATAGATA	AGCAGAACCA	GCGCGTCTCT	600
	CCCACATATA	ACCGCCTACT	CGACCGCATG	GAGGACGCGC	TCGTGCGCTG	GCGGCCGCCC	660
	GCCAGCTCCC	ACGTCGGCTC	CTCGCTAGCA	ATCCACGGCA	CGCACCCGTA	C	

1562RP

	GATCATTTGA	GTGCAAAGGG	AGAAGTAGCG	CTTTTGACAG	TACGTGCGGT	GTGTGGACAT	60
	CCTAGGTACT	GTTGACATTC	ATGTGGGTCA	GTCAGATTAC	AAGTACACAA	AGTCGATATG	120
	ACAAGCCACG	TGACCATATA	TCCAAGACGC	CCCCCAGCGC	ACGCCTGCTC	TGTGCATAGG	180
	ACTGGCTACC	TACCAGTTAC	AATGGGGTTT	GCAACTTAAC	TGCTCTAATC	CTCACACGCG	240
35	GAGTTATATA	TGTGCTATAG	GGCATGCTCC	CGGGGCGCAA	TTCAGGGCCA	ACGGCCTGCG	300
	ACCATGCCAG	AGCAGCCATA	CCAAGCGCTG	CAACAGGATG	CGATATCTCG	TTCTATATAT	360
	ATACAGATAT	ATATATATAC	TGTAACAAAA	TCCCTAGCGA	TCTCGCTGTG	AAAGGCCGGT	420
	ACTTAAATCA	TATCGTCGTC	TTCTTCAGCC	CCGATCGACA	AAGCCCGCCC	ATCGTTCCGG	480
	AAGCTTGGAA	GCTCGGGCGC	AGAAGAGCTC	AACTCGAGTG	CCGCGCATAT	AAAGCCGGTC	540
	ATGAAGAGCA	TTGTAAATGC	GCAAACTTGG	AAAAAGCCTG	CTGGCAAAAG	CATCACTGCC	600
	AGGAGGAGTT	GTAGGAGGGC	GCGACCCATG	TAACTATAGT	AGAAGGACGC	GTATTGTTGA	660
40	AGCAATGGTA	CTGGTCGGAA	TTTCAGGTTAT	ACCAGCAGGA	CGGAGAGTGG	AAGGCCGAAA	720

1562UP

	GATCTGGCGT	GCATATATAA	CGTATCTGCG	CTCACGCGAC	CTGGTGCGGA	CTTCTTTAGC	60
	CGGCTACTAA	CTCTGTAGCT	GTTGGGGCTG	CCTGCGGCGC	CGCCGGGCGA	GCTTGGCAGA	120
	ATCCGCCGTT	GCGTCACGGC	CAGTGCCAGC	CGAACAGGAC	GCCCTTTTCT	AGCAGCAGCG	180
	CTTCCGCAGC	GCTTTCCTTT	TTTTCCAGC	TAAGGTCGTG	TATTTTCTCG	CAGAGGGTTA	240
	GAAAAGTACA	CTTTACATCT	GAACACACCA	CAAAAGTCGT	CTGATTGGAG	AGGCACGAAA	300
50	CCAAACAATT	GAAAGGTATG	TTGAGTGGTA	AGCAGACGGT	ACACTGAGCT	GGCCGCTTTT	360
	TAGCAGCTGG	GAGCCACCCG	CACTTTCTCT	TTTCCCGCTC	TGTTGCTTCT	TGCGCGCCCC	420
	CTTGGCCTGG	ATCTCGAGAG	CCGCGGAGCT	ACCGCCCGTC	CCGCGCCAGC	CTGGGCTTCC	480
	CAGGCGGCCA	GTGGTCAGAG	CCGGTCGCCC	ACGGCAGCCG	GCTTCATGGG	CGGCTGGCGG	540
	CTCTGTTTAC	AGGGATCGGT	CACGTGCCGT	GTGAGGCTAA	GCCGGTGCGG	AG	

1563RP

	GATCCTCGCT	ACTTTGACAA	CATCAGGAAG	GCGCTTGCTG	CAGGCTTTTT	CATGCAGGTA	60
	GCGAAGAAAC	GCTCGGGAGG	AAAAGGCTAC	ATTACTATCA	AAGACAACCA	AGACGTGCTC	120
5	ATCCACCCTA	GCACGGTCAT	TGGCCACGAT	GCAGAGTGGG	TAATCTACAA	TGAATTCGTG	180
	CTGACTACTC	AAAACCTACAT	ACGGACGATC	ACCTCCGTCC	GTCTTGAGTG	GTTGATTGAA	240
	CTCGCACCTG	CGTACTATGA	CCTTGATAAC	TTTCAAAAAG	GTGATATCAA	GCTCAGTCTG	300
	GAACGGATTA	AACAAAAGAT	GGATCGCATC	GAAGAGCTAA	GTAAAGAGCA	ATCCAAGAAG	360
	CATAGACAGA	GCCGCGCGTA	NTTCGTGAGC	TTGTTGTAGC	TAAATATCTC	TCTGATATAG	420
	CATGTACACA	ATAATAGGAC	TTTTGAGCTG	TCCTTCGTTA	CTTCGGATTA	GCAAATTTATC	480
10	GCAGAAGTTA	GCAGGCACCG	CCGCCCTTGT	TGGTGCGCTT	GCACGAAAGC	AGCTGGTGAT	540
	GTTCGGCGTC	GCTAAAAACC	CTCATTTGTG	CCTATCATAT	GCCCAGCGCT	ACAGAGTCTT	600
	CGCATCATCA	TGTTTGAGAA	GGACGAGATA	CTCCCACCTG	ATGAGGCCAG	GTCCCAAAAG	660
	ATAAAGGAGT	TCCTGAGCCT	CTCCCTCGGG	CTGATCACCG	AATCCATCGA	AAAGAAAGAA	720
	TATGACTCCA	TA					

15

1563UP

	GATCGGTTGT	CTTCCGACGC	TGGTACAGGG	CTCGGATGCG	CGTCTGCGGC	TGGCGGTGCA	60
	TATCGGAGAT	ATGGCGCCGT	GCCCCGTACGG	CAAAGAATCA	GCAAGACACT	AGCGTCTGGC	120
20	ATTCTTTTTT	AATGCATTAT	TTAGCTTTTT	TTTTTTTTTT	TTTTTTTAGTA	TAGACACAAT	180
	ATAAAGTAGA	GTTTCGTATC	AGTAGCGCTC	GTAAGGTTAG	GGGCCGGCTT	CACGCCATAG	240
	TAGCATCTCC	GTCAGATCTC	TGGATTGGCG	CTTGCTCTAT	GCCGGCGGAT	TCCGCAACTG	300
	CGTAGGGTCT	TTTCGTTAGCG	GACTGGTTCC	CACCGGCGGC	ATGGGCAGGC	CACGAGGGAG	360
	CTCCCGTAGC	AGCCTGTGAC	TTGTCCTGGCA	GCGAGCGGCC	TGGTGGGTGC	TGGAAGAAGC	420
	AGTGGGCGTT	GCGACATTTC	GCGCCGAATT	TGCAGGGCTC	GTTGATGGGG	TGGCCGAAAA	480
25	AGCAATCTAT	GCGCGTGCAC	GCAGCGCCCT	CGCGGCACAT	AATGTGTGAA	CGCGCATGGC	540
	GGTACTTACA	CCGTTTGTTT	GTGCACTTGA	CGCCGAACCT	ACACTGCTCG	AGCGAACGCT	600
	CCGTGGGTGC	AAACGCACCG	GCTTGGAAGG	ACGTGGCGCA	GCAGCAATAG	GCTGAACATC	660
	TCGTATCTTG	GACAAGGAAG	ATGCGCCTTG	TCCGAGTCCT	CTTGTCACAG	GTTAGGT	

1565RP

	GATCACATGT	TTTCCCCAGA	GAGGGACCTG	GCGTTGAGAG	AGCGATGGGC	CGTTATACCA	60
	CTGAGCCCTA	TTAGTTGCTG	GATTTGTGTT	TCCAGCAGCT	GCGCATGGGG	CCGGATTCCG	120
	TCAAGTGTTA	TTCCGCAGAT	GTTGGTTTTG	GCTCGATAAG	TGCATAAGGA	AGCTGCTCTG	180
	TTAGTACATG	TCACATAGGA	GGCTTCCGCA	TTGGCGCATG	GCATCCAGTG	GCGGGCTTGT	240
35	GGCGCGACGG	GTATTCCAGT	AGCCGTCCTG	GAACCGTATT	CAATCATCTT	TGGCCACAGC	300
	GTATATAAAG	CGGCTGATGA	GCCTGGATGC	AATGGGGTGT	AGCTGCGGAG	ACTGCACCGA	360
	AGATGTCTAG	CAAAGTTTTCA	TTCTATTGTA	ATTGGCAGCC	TGCGCCATAC	CACATTGCGA	420
	TTTTTCTAGC	CCAGTCCAAG	GGCTACTTTC	AGCAGGAGGG	TGTGGACATT	GCGCTGCTCG	480
	AGCCACGAA	CCCGTCCGAC	GTGACGGAGT	TGATCGGTGC	GGGCAAGGTT	GACATGGGCC	540
	TAAAGGCGAT	GATCCATACG	CTGGCCGCTA	AGGCACGTGG	TTTCCCGGTC	ACTTCTGTTG	600
40	CATCGCTGCT	GGATGAGCCG	TTACCCGGGG	TTCTGTACCT	GCGTGGCAAC	GGAGTCACAG	660
	ATACTTTTCAG	CTCTCTTCAG	GGGAAGCG				

1565UP

	GATCCCTTTC	ATACAGGTCA	ATATTTTTATG	CAGAGACAGG	GGCTGGACGT	TGTAAAGGTC	60
	TTTCATCCAG	ATATGCTAAG	AGGCGAAATT	TCATGCACGA	GTATGATCAC	AAAAATGAC	120
	ACAGCCAAAC	AAATTGCCAT	TATTTTTTGA	GGATCTACAG	TGATACAGGA	TTGGATTATC	180
	GATGTTCTAT	CCACCCCTAT	TCCATTCAAT	CTCGTCTCTA	CCCCCTATCA	GCCCCGTCAGT	240
	GGAGCTGCAA	AGTGGCCAGG	GAACGTCTCT	ACGCACACTG	GCGTCTACGA	TCAATTTTAAA	300
50	AAAGCATTTA	AGGATATTTA	TGCTGTTTTT	AAGCCGCTAA	AAGACACACA	TCCGGATTAT	360
	GAGGTGATAG	TTACTGGTCT	TTCTTTAAGT	GGCGGCTATG	CTCACTTTAT	GGGTATTGAA	420
	TTGCAACTTC	TGGGCTACAA	GCCTCATGTT	TGCGCCTTTG	GATCATTGCG	TATAGGCMAT	480
	AAGGACTTTA	ACGATTGGGT	GGATGATATA	TTTCCGTTCG	AAGACGTTTC	GAGAAGAATC	540
	CCAAATAATG	AGATGCCC					

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1566RP

	GATCGCGAAA	CACAACGCGC	GCGGCGCGGT	AGCGCCGCGG	GCGCTGCTGC	AGGACGTGCG	60
	CGACGCGCTC	GCGGCGCACT	ACGGGGTAGG	AGTACATCAA	CCGGTACGTG	GAGGACGAGT	120
5	GGGTGTTCAA	CAACGCGGGC	GGCGCTATGG	GGCAGATGCT	GATTCTGCAC	GCGTCTGTGA	180
	GCGAGTACCT	GATTCTGTTT	GGCACGGCCG	TGGGCACGGA	GGGCCACACG	GGCGTGCACT	240
	TTGCGGATGA	CTACTTCACG	ATCCTGCACG	GGGAGCAGAG	CGCGGCACTG	CCACACGCGC	300
	TGGAGCCGGA	GGTGACACG	CCGGGTATGA	CGCATCACCT	GCGCATGGGC	CACGCGAAGC	360
	AGTACGCGAT	GCCGTCGGGC	TCTTTTGCGC	TGGAGCTGGC	ACAGGGGTGG	ATCCCGTGCA	420
	TGCTGCCGTT	CGGTTTTCTG	GACACGTTCA	ACAGCACACT	CGACGTGTAC	ACTCTGGCGC	480
10	GCACCGTGCA	GCTGACAGCG	CGCGACATGT	TCAAGAACTT	GGTGATACAT	TTCAAGTTTT	540
	AGCCTAGATA	CATAACCACC	ACCAATGTCT	GCGCAGGCCT	CGCCCGCGAC	AGAGCTGCCA	600
	GAACCCGACG	CTCGGGCAGG	TGTACGCCAC	GCTGACGCGC	CACTC		

1566UP

15	GATCCTCAAG	TCTACGAACG	CCTCGAAGGT	GTTTACGACG	GCCGTTTTGG	CTGATGTCAT	60
	CACAGCTGAG	GCTAAGGGTG	ATTTTGACGC	GAAGTCTGCT	GTCCCAGGTC	ACGTGCAACA	120
	GGGCGGCCTA	CCATCGCCAA	TCGACAGAAC	CAGAGGAACT	CGTCTCGCGG	TCCGTGCGAT	180
	CGGCTTCATC	GAGGCTAAGC	AGGACGTGAT	TCGCGAAGCC	AGGGGAAAT	GAGGAGGCCT	240
20	TTGACTGCGC	CGACAAGGCC	GTCTCTCACA	CCGCCGCCGT	CCTCGGCATC	ACCGGCTCCC	300
	AACTGAAGTT	CACCTCCATC	AGGCAACTCT	ACGACCTGGA	AACAGAGTTC	TCCAAGCGTA	360
	TGCCAAAGGT	TATCCACTGG	GAGCCTACCC	GCGCGATTGC	GGACCATTTA	GAAGGCCGCA	420
	AGAGGGTAAC	AGTTTAGTGT	CTCTGTTTCG	CCCGCTGCCC	CACATATATG	ACCACTAGAT	480
	ACCACGATTA	TGGATAAACT	TAACATGGCA	GAGTACACTC	TCATCCACCT	GCCATGTATA	540
	TAATGTGATT	TTACTGACGA	AAACTGTTTT	AAACGCCGTT	GCAGGGTCCG	TCGCAGCTCG	600
25	TATAAATATC	TTGACGCCAC	CTCGATCTCC	ATTGGTGAGG	AAGTACCCGT	CGAGATACAA	660
	TAGTGCCAGC	TTGCTAAGGG	GTAAGCTGAC	CACTCTACAC	A		

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1568RP

	GATCACGAAA	CGGTGCGTAT	TAGGTTCCCA	TGCAAAGCGC	ATGCAGCGGT	CCTTAATCTC	60
	CACCTTCTCA	AATGGAAACT	CTCTGGCAGT	CAAAGAGCAA	ATCTCCATGT	TGGTGAAGAT	120
5	GGTCTTCCCTA	GACTTCGTGT	GACGGTCCAC	CTGTACACAG	AGGAACCTCTG	CCTGGTTCCTG	180
	CCAATGGAAG	GAGACATCAG	TAACCTGCAC	CAAGTTGATG	GTACGCAGAA	CACGGCCGGTT	240
	CGGTAGCTCA	ATCAGGACAG	CTTTACACGA	CTGGTTGTTT	GACTCTGGAG	TCCAGTATAC	300
	CATGACAGTA	GATGGTGGGT	CGTTGGGTCT	GTTTGACGCC	AACCTTGATGC	CCTTAGGAGC	360
	AAAGGAGAAG	TCCTGAACAT	CCTCGATCTT	CATCACCTTA	CCGCCCAACA	GCTGGAAGTT	420
	CTTCTCGGTC	TCGTACACAG	CAATTGCGCC	AGGGCCAAGA	CGAGCGCAGA	ACTTGTCTGTC	480
10	AAAGGACCAC	TTGACCATAG	GCCATTGCAG	CTGCTGCTGA	GGCGGCAGCG	CAAAGGTCTT	540
	CACGCAGACA	CCTGTTGCCA	CATCCCATAT	ACATAGCTGG	TGGCCCCGCG	ACTCGGGCCC	600
	GAATGGACAA	GCCTCGTTAG	GTTCAATCCGA	GACTTCTAGA	GGTTCCGACG	AAAAGGTAAC	660
	CAGGTACTTC	TCGGTCGAGG	ACATGGAGAT	CGCCTT			

1568UP

	GATCATCTAC	GTGGCCCATG	AGGATAATAA	GGAGAAAGAA	TTCGAAATTG	AGCTGAGCTG	60
	GTGCTCCGCT	TCGGAGACGG	ATGGCTTGCA	GAAGGGAGGT	ACCAAAAGAG	CTATTTGATG	120
	CAGCGATTGA	GTTTGCGAAG	AAGGAGACCG	GTCAGGAGAG	TGATGATGAT	TCAAGCGATG	180
20	ACAACGCATC	TGGAGGTGAA	GAGTCTCTAA	CAAAGAAGGA	TGCTGACGGT	GATGTCCAGC	240
	TTTCATGATA	ACAGCCCGCG	ATTATGTGGA	GGTTCATTTC	ATGACAAATG	ACGGATGTTA	300
	CTAAGTGTAT	ATTAAGTTAA	TCCACCTATA	TAAATTAATA	ACATGCAAAG	CAATTTAGAA	360
	TTTGTCGGAA	AGCAGGTTAA	AGCATGTCTA	CTCTCCTTAA	TCTTTCGCGA	AGCTGTACAT	420
	TTTCTTCTTC	AAGTGAACGA	ATTCTATCCA	CGGCTGCGTC	TGATTCTAAT	TTCTTACGTT	480
	CGCGTTCTGT	TACCAATTTT	CGCGTCAGCT	CTTCTATCAT	TAATTTTGAA	TGCTGATCAA	540
25	ATGTATCTGA	TTCATCCGAG	CCCTGCGACA	CCTGGGATAG	ACGTTTGATT	CTTCTGTCTT	600
	TTTCCTTTAA	CAGCAGCTTT	ACATGTTTCT	CCACTATTGA	TGATGTGGCA	TTTTGGGATG	660
	AACATATAAA	TAGAATCCCA	TTTCAGCTGG	TTTCTTC			

1569RP

30	GATCCGATAT	ACGCTGAGTG	CTATATTACA	AACCATCAAT	TTGATGTTAT	CTTGGACGTA	60
	TTGTTGGTTA	ACCAGACGAA	AGAACTTTG	AAAAACTTGC	ATGCGCAGTT	TGCAACCCCTG	120
	GGCGACCTGA	AGATTATATG	CAACCTTCCA	AGCACCAATC	TAGTTCCTCA	TGGTTTCCAC	180
	AGATTTAGCG	TTACAGTGAA	GGTTTCAAGT	GCCGATACTG	GTATAATCTT	TGGGAATATA	240
	GTTTATGACG	GTGGACACGG	CGAAGATGCA	CGCTATGTGA	TCTTAAATGA	TGTCCATGTT	300
	GCTACAATGG	ACTACATTA	GCCTGCAGTT	TGTGATGAAG	CTTCTTTCCG	CAAGATGTGG	360
35	AATGCAATTTG	AATGGGAGAA	CAAAATGGTT	GTCAAATCTA	AGCTACCGAC	TCTGCATGAC	420
	TACTTGAATA	AGCTGATTGA	GGTCACCCAT	ATGAATGTCC	TGACTCCTGA	AGAATCAATT	480
	GCCGACCCCG	AATGTCGTTT	CTTAAGCTGC	AACTTATACT	CGAAGTCCAC	CTTCGGCGAG	540
	GATGCTCTGG	CTAATTTGTG	TATCGAGAGA	GACCCTACTA	GTGGTTCCAT	CATCGGAGAA	600
	GTTTCGCATCC	GCTCGAAGAC	GCAGGGCCTT	GCTTTGACCC	ACGGAGACAG	TATTGCGCMC	660
40	ATGGAAGGT	CC					

1569UP

45	GATCTGCAAT	GCTCTTCAAC	AATTTGCTGC	AAGCTATTCT	CCTGATGACC	TTGCCATCTT	60
	GAGTGAGCTT	TTTGATTCCA	ACAGCAAATC	TGAATAGGCC	TCTATCTCCT	TTAAAAGCAG	120
	CGTCGTGCAT	GGGGCTTTGG	GTTTACATTG	GAAAAAGCCC	CAAAGAACAA	GGTAATGCAT	180
	GCCAAAAGTA	GCCTTTAATC	CACCTCACAT	TTAGATATTG	TTACGCAGTG	TATCTATACA	240
	AAAAATAACG	ACAAATAATA	TCCTTTAGAG	CTGGTTCTTT	AGACTAAAAAT	AGGGCTCGGT	300
	ATGCAATACC	TCAGATGCTA	TCTTGATATC	CGTGTGGATA	TCCTCGATTA	AAGCCTCTTT	360
	CGTGGTGTAG	TTTAATTCCG	GCCGGATGTA	GCCAAGGAAG	CTGAACCTTA	TTTTGGCGCC	420
50	ATAGAAGTCT	CTTTCAAAGT	CGTTTAAAAAT	GTGCAACTCA	ACCGTCTTCT	TACTGTTGTT	480
	ATAGAACGGG	TTCCATCCTA	CCGATAACAC	GATTGGAAAG	ACTCCACGCT	CTGTTTCCGA	540
	CAGCTTGGAG	CCAAAGTTGT	ATATGACCTC	GCTCCCATCA	TTTCTGTGAT	GGGACCTGCG	600
	CTTCTTGGTC	CATATTAGCC	TTAACCGGGC	CCAGCCAAAA	TATACTCCTG	TGGCCATTTT	660
	GTTAACTTCC	CTAGGCAATT	GTTCTATTGG	GAACATTC			

1570RP

	GATCCACAAC	ACACACAGCT	TGCGGACTCT	TTTTCTCAAA	GACAGTTCAC	CAGTCCAACA	60
	CTTGCAAAAC	CATCTGCTAA	CGTTTCAAAG	ATTGCGCAGC	AGCAAACCCA	GCCAAACCGT	120
5	CTCTCTCAAT	CTCATCTCTA	GCAACAACAA	GGTTTACAAG	CTCAGCAGCA	GCTACTTCAA	180
	CAACAACAAG	GTTTACAAGC	TCAGCAGCAG	CTACTTCAAC	AACAACAACA	GCAACCACCA	240
	CCACCACCAC	CACAACCACA	GCAACAAACA	CAACAACCAC	AACAACCACA	ACAGCAGCAG	300
	CAGCCCCAAC	CTCAACCGCA	ACTACAACAA	CAACAACAGC	TTGGTTTACA	GCCTCATCAG	360
	CCACAACCTGG	CGCAGGCGCA	GGCGCAACAA	CCACAACCGC	AGCAGCAGAC	GCAGCAGCAG	420
	ACGCAGCAGC	AGCAGCAGCA	GCAGCAGCAG	CAGCAGCAGC	AGCAGACACA	GCAGCAGACA	480
10	CAACACCAAC	CACAACCACA	ATTGAAACCA	CAATCACAGC	AACCACAACC	GGTTCCACAG	540
	CAAGTCCAGT	CTCAACAACC	ACAGCAAGTC	CAGTCTCAAC	AACAACCACA	GCCTCAGCAA	600
	CTTTACAGC	CTGCCCAACA	ACAATCGCAA	CAACAACAGC	AGCAGCAGCA	GCAGTCTCAG	660
	CAGCAGAAGC	TTCGCCAAGT	GCAGCTGC				

1570UP

	GATCTTCGGG	CCCGCGGGGC	CGCTGGGCTA	CGTGCTGACG	CTGTATGCGA	ACGCGCAGTT	60
	CTTCACAACC	ATGATCGTGA	ACTCGCACCT	GGCGACGCCG	CTGTTGGACT	ACACCATTGC	120
	GTCGCTGATG	GGTATCCATA	TTGAGTACAA	GCGCCATAAC	CCTGAAATTGG	TGGAGCCGGA	180
	GGCGTTTACG	GCATACGATG	TGCTGACGGT	GCTGCGCCTG	GTCTAGAGCG	TTGCCGTGAT	240
20	GGTGGTTCTG	GTGACCAATC	CGATTTCTGG	ACCTGTTCTA	CTGATGTTTG	TGATGAAATG	300
	AAAGTTTTTCA	TACGACTTCT	ACGAGCGGTT	CTTAATTCTA	CGGGGACTAA	ACCAGGTGCA	360
	GCGCCGTGAC	GTGTTCTACC	AGCATATCTT	ACAGTTTGCA	TACTTCGGGG	GGTCGTACAC	420
	GGTTTTTAAAT	TTCTGTCCTC	TATTTCTCAGT	CTGGGGCTTT	GTGTGCTATC	CGTTGGCAAT	480
	CAAAATGTGG	GCGACTTCCA	ACATCATCCA	CTTTACAGCG	GAAGAAGTGG	AGTCCATCAC	540
	TGAATGAAAT	CATTCAATTA	ACATGTCCAT	CTATACATAA	AGATAGATAT	AGCCAGAATC	600
25	AATACCTTGC	CCATTAGTAA	AGTACCATGC	TGTCGACACA	GCCGAATCCC	GCGCAACACC	660
	GCCCTCGTTG	GACGAAGGCA	ACTTGGAACG	CAGCAGCCAT	CCCAGCGTAG	TCGT	

1571RP

	CGCAGGCCGT	AGGCAACACC	GTTGGATATC	TGCACCTGGC	AAAGGTCCTG	ACCCGGCAGC	60
	AGAAGCTCGC	GCGAACCGGT	AGTCCACGCA	TACAAGTCGC	CGCGGCCGGT	GATTGCCAAG	120
	TTGCAACCCCT	CCCTCTGCCAG	CGCCACATCC	CGCAGCCGCT	CGCCCTCAAA	CCCCGGCACC	180
	CGCAACGGGA	ACCGCGTGGA	GCCAGCGTCC	TCGCCCAGCC	GCGCGCCCCA	GTAGTAGAGC	240
	CCGGGGCTCTC	CTGGCTGCCG	CGCCGTCAAC	GGGATCTCGG	GGATCCCGCG	CAGCTCCTTC	300
	TTGCGCTTGA	CTCTCTTCAG	CCGCTCAAGC	GTGTTGTCTG	CCACCCGCGG	GTGCGCGCGT	360
35	AGAATCCAGC	CCTTGATCTG	CGGCCATTGA	AGATACACCG	TGCCCTGCTAC	TCCGATCCCC	420
	ACGACCACCG	CCAGGCCCTG	GAACACCGCC	ATCAGCTTCT	GCATCTTCTC	CACCTTGCTC	480
	GCATACTCCT	GCTCCAGTTG	GCGCGGCGAT	TTGTCACTCC	ACTGGTAGTC	CAGCTTGCTG	540
	CGCTTGGCCT	TGTATGTGCC	ATGGTTTCAG	TGCTCTTGCC	ATCATCTCGG	GCTCATCAAA	600
	ACGCTGCCCC	TTGCGCAACG	CCCTTGCTTC	CATAGCAGC	GCCTCGCCAC	TCGCAGCC	

1571UP

	GATCACGTGA	TGGGATGAAA	ACTCTGACAA	ATGCACCGGG	AATATATAAG	GCATGGAGCT	60
	GCGGACTCGG	CCAGACAGTG	CGAGCAGCGA	AACAACAACA	TCATCCAAAA	TGGCCAGAAG	120
45	ACCAGCTAGA	TGCTACCGTT	ACCAGAAGAA	CAAGCCTTAC	CCAAAGTCTA	GGTACAACAG	180
	AGCTGTGCCA	GACTCCAAGA	TCAGAATCTA	CGACTTGGGT	AAGAAGAAGG	CCACCGTTGA	240
	TGAGTTCCCT	CTATGTGTGC	ACCTAGTGTC	CAACGAGTTG	GAGCAGTTGT	CCTCCGAGGC	300
	TTTGGAAGCC	GCCCGTATCT	GTGCCAACAA	GTACATCACC	AAGATGACCG	GTAGAGACTC	360
	GTTCCACTTG	AGAGTCAGAG	TGCACCCATT	CCACGTCTTG	AGAATCAACA	AGATGTTGTC	420
	GTGTGCAGGT	GCAGACAGAC	TGCAGCAGGG	TATGAGAGGT	GCCTGGGGTA	AGCCTCACGG	480
50	TTTGGCTGCC	CGTGTGACA	TCGGCCAGAT	CATCTTCTCC	GTGAGAACCA	AGGACAACAA	540
	CAAGGACATC	CTTGTTGAGG	CTTTGAGAAG	ACCAGATACA	AGTTCCAGG	TCAGCAGAAG	600
	ATCATCATGT	CCAAGAAGTG	GGGTTTCACC	AACTTGACC	GTGCCGAGTA	CGTCAGA	

1572RP

	GATCTATTAT	TAGAGGTAAT	ACATTTAAAC	TATTATCTAA	ATTCTTCTTC	TTCTTATTTA	60
	TTCTTAACTT	TATCTTATTA	GGTAAATTAG	GTGAATGTCA	TGTTGAAGTA	CCATTTATTT	120
5	TAATAGGTCA	AATTTGTACA	TTTATTTATTT	TTGCTTATTT	CTTAATCTTA	GTACCTATTA	180
	TTTCTATAAT	TGAAAATATT	TTATTTTATTT	TACTAAATAA	AAAATAATAA	TTAAATAAAT	240
	AATAATAATA	TTCAATTAAT	ACTTTAATAT	TAATATTTAT	ATATTATACT	TCTTTATCAT	300
	TTAGGAGGGT	ACCTCATATT	GCTGACTAAC	AATAGGGGGG	TGAACCCTAC	GCACCTAAAT	360
	GATAAGAGTT	TATCATTAATA	TTATATACTA	TATATTATAA	GTAATTTATC	AAACCATATA	420
	TAAGGTATAT	ATATTAAGAA	AGTTTGACTG	AGTGGTTTAA	AGTGTAAATAT	TTGAGCTATT	480
	ATAAATCTTT	ATGATTTTCCT	AGGTTGCAAT	CCTATAACTT	TCGTATTAAA	TAATTATTTA	540
10	AAATAATTAA	AAATAGTTAA	TAATAATGAG	AACATGATGT	TGGTTCAGAT	TAAGCGCTAA	600
	CTAAGGGACA	TTACACATGC	CAATC				

1572UP

	GATCCGTGTA	TTTTTTTATTT	ACATTATTTA	ATTAAAAATA	ATGATTTAAA	TAAATATTTT	60
	TTATAAAAAA	TAATTAGTGC	ATTGTTACAT	GTTCAATAAA	GAATGATTAT	TATCAAAACC	120
	ATCAACTAAT	TGTTATATAT	TTATTAAATA	TTAATTTTCRC	TTAATTAAGA	ATTAGGAACT	180
	TTATCTATTA	GTCTGGGCTG	TTTCCCTTTT	GATTATTAAAC	CTTATCGCTA	ATAATCTGAA	240
	ATATTTAATT	TTAGATTAAAT	AATATATTCT	GAGATTTAAT	ATTTTAAATA	AAATAAATAA	300
20	TTATTCCTTA	AATAATATTA	ATAACTATAC	CATATATATC	TAATATTTAA	ATAATCATAC	360
	TAACATATGT	TTCTGTAGAAA	ACCAGCTATT	TGCAAATCAG	ATTTGACTTT	CTCTACTTAC	420
	CATTATTTCAT	CAGATAATAT	TGCTACATTA	ACCTGTTCAA	TCGTTTTTAT	ATTTTATTAT	480
	ATTTTAAATA	TAATAAATAT	ATATTTTAAAT	CATTGATAA	TAGTAAGATC	ATCTGCTTTC	540
	GGGTTAATTA	ATATTAACATA	AATTTAATTT	ATTTTAAATTA	ATTTTAAACAT	TGTTAAATAT	600
	TTATATTATT	TTTAATATCA	TTTTTTTATTT	TAATATTATG	CTAATATTAA	TTACTTGCTG	660
25	ACCCATTATA	CAAAAGG					

1573RP

	GATCCGTATG	GAAATTATTT	TTTTATTGTA	ATTATCTTTC	TCCAGAACAT	CCAAGAAGAG	60
	TGTCAGAGTG	GTGGGCAGAT	ATGGCTTAAA	CTCTCCTTCC	AAAGATTTAG	AAATAGATTTC	120
	GATAACAGAA	ATGATTGTAA	TTTGCAGTTT	AATAAATGGG	AAGAACTCTT	TAATGACTTC	180
	AAATATTTTCG	TCAACATATG	GCCTGATATG	TTGCTTCACA	ATTGATACCA	TAACACCTAA	240
	TTGTTGAAAA	TAAAACCTCAA	GTATTGATGG	AGGACAGCTA	CGCATCACAT	TAATCATTCC	300
	TGGAATAAAT	TGCTTTAGGA	AGGAGACGCA	GCGGAGTCCC	AATGTTTGGA	AGATGTGCAT	360
	CACTGCCTGT	ATGACAGCAG	TGTGATGAGA	AGATAAAGAA	GGATCCCTCA	AAATTTTCAT	420
35	TAGAGTATTG	ATCACGACGG	TTGGATAATA	TTCTTCATTG	GAGGGTGACA	TACCTTGCAT	480
	TAACAAAGCA	ACATCTATGG	ATGGGGCATT	TTGTTGACG	GATATAGGCG	TGCTGGATGT	540
	TCTTTCAACT	TCTCTATGTT	TATAAGGGTC	CAGAGCTCCC	AGAATCCCTA	TTAGTCTAAC	600
	TGTTTCCCTC	CTTATGCCTT	GGG				

1573UP

	GATCSGATAG	GACAGCGAGT	ACGACGGCCC	CTGTGCCGCT	GCCAGCGCCT	CGTTGCCAAT	60
	GTAAAGTTCG	AGGTCTCTCCG	TCCCAGCCTT	CCCAGCCAGG	TTGTTGACA	TCAAAGAAGA	120
	TGACGTAAAG	CCCGTGAACG	ACGTGCGCGA	CGTCGTGTTG	CCAAAGAATG	CAGACCCGCC	180
45	AGCGCCCAT	CCGCTCCCGC	TCTGGCCCAT	ACCGCTCATA	CTGCTACTCT	TGGCCGTCTT	240
	GGAAGGCTGC	GCAGTCGCAA	TTGCCGTTGG	GAACACCCAT	GAGGGCGAGT	CGTTACCTGC	300
	AAATCCCAAT	TTGGTCAATC	CTGTACCATT	GTCCATGACA	ACAGCAGGAT	TATTGAGGTA	360
	TGACATGCTG	TATTCCTGGT	CTCAAATGCT	TCTGGTAGAC	TTGTGTGAGC	CTTTGGCTTC	420
	GGATGGCTTG	TCACTTACTG	GCTTAAGAGT	GCTGGCAGTG	GAAAAGGGGT	CTAATGCGCC	480
	TTTCGTTTTA	GGTGATCACC	ATCACCAACC	ACGGTACACC	TGACGAAAGG	CAACGCCCGT	540
50	GCTTGTGAAG	CCAGGAGAGC	CCTCGTAGGT	ATTCCGCGGA	GCCAATTGGT	GGCCCTCTGC	600
	GTTCTCTGAG	CGCTCCTGCT	CCATCTGCCC	TCTTGAAGT	TTTATGAACC	TTGAAACACG	660
	GCATATAGCG	ACACGGACTT	TCTGCAGGTC	TGTAGAGTAG	CCCACATCCG	GCGAA	

1574RP

	GATCCCGAAG	CTGGTCTGTT	TCGAATTCGG	GATATTTTFA	GGAAGTACGT	TTGTTCCAAC	60
	GACGTTGCTT	CCATGCATCT	TGCGGGGTTG	TTGACGCAAC	ATTTTCAGTC	TCACATTCCC	120
5	TGAACAGCTT	TGCTATCTAC	TAGGAGTTAC	TGAAGCTTTT	AATGTCTGTT	AATAAATCTT	180
	TTGAGTTAGA	TAATTCGCTG	CGCTACAGTC	TCCATGGGTT	TTTATTGGCC	AACCCATCTG	240
	TAACTCTAAT	TGAAAGGGAG	AAGATCCTAT	ACAGGAAATF	AACAAAGGAG	TCTGTGGCAC	300
	TAGTTTCGGG	TGGGGGGTGC	GGACATGAGC	CTGCGCACAG	CGGGTATGTT	GGGGAGGGCA	360
	TGTTAACCGC	GGCTGTGCA	GGAGACATTT	TTGCGTCGCC	GTCGACGGCT	CAGATTTTGA	420
	CTGCAATAAG	GATTGCTACA	AAGCAAGCAG	CTGGAGCATT	GCTGATCGTG	AAGAACTATA	480
10	CTGGCGACGT	TCTTCACTTT	GGCCTGGCAA	CTGAGCGTGC	TCGGTCTATG	GGCATTGATT	540
	GCCGCGTGGT	TATTGTTGGT	GATGACGTAC	TGTTGGTCCT	ACCAAGGGTG	CAGGAATTGG	600
	AC						

1574UP

	GATCAAAAGC	GTGAAGCTGG	AGCGTAATGA	GGAGCAGCCA	GTGTTTTCGA	TGGACTGGGA	60
	CCAGCTGTAC	GACGTGTCTT	CGAACATAAT	GGAAGAAATF	ACAAAGGAAA	TGGACGAAAT	120
	AGTGGCAGAG	CTCAACCACT	CGTTCAAGGT	ATGTAGCACG	ATGAACACGC	AGGGCGGGCG	180
	GGTTACTAAC	GCGATGGGTG	CAGAAGCAAT	TGCTTTGGCA	GGAGGCGGCG	TTTACCGTCG	240
	ACTCGCACAG	AGGCGCCACC	CGGTTCGGCG	CTGCGGAAAG	CTGGATGAAG	AGCAAAGAGA	300
20	CGCACCTGGA	ACAGAAGCGG	CGGGAGTCCG	ATGCATCGGC	GCGCATCATC	AAGAGCACGC	360
	TCGAAAATTT	GACGCAGGGA	TAGTCCCGGC	CGGCATCCGT	CATGCAATGC	CTTGCTCAAC	420
	ATTACATGGA	TGGGTATTTT	TGCCTATGTA	CAACATAAT	TTACGCGAAT	TTAGCTTTCT	480
	TCCAAGGCCT	GTCTTCGGTG	TCTGCGCCAT	CGGCGGCTTC	AGTTTCACTC	TCCGAGACAC	540
	CGGCGTCTGA	GTCAAACCTCC	TCCGCGACGT	CATCGTCTTC	CGACTCCGCC	TGGAAATCCT	600
	CGTCCACAGA	CTCATCGTCC	TCTGCAGCAG	AACCATGTTA	ACGTCCTCAT	CTCGCTGTCA	660
25	GAACCAAGGG	CTGTTTGTAG	GCGCTGCTGA	ATCTCTTTCT	CTTCGTTTTT	GACGCGGACG	720
	TT						

1575RP

	GATCCAGTAA	ACTTCAGCTC	ATCGTGAGCA	ACCGACGTCA	CCCCACCACG	CGCAGGCGAT	60
	ACTCCGGTGG	AAATCACCTG	AGTATATGCA	GTACTCTTCG	AACCATCGTG	AGCAACCGAC	120
	TCCACCTCAT	CACGCGCAGG	TGAAAGTCCG	GTGGATATCA	CCTGAGTACG	TGCAGGCGAA	180
	CTGCCTGCGG	AAATCACATC	ACTATCAGCA	GGTGAAACTC	CAGTGGAAT	CGCCTGAGTA	240
	CGTGCACTAG	GCTTCGACTC	ATTGTGGGCG	ACCGATGTCA	CCTCACCCCG	CGCAGGCGAA	300
35	CTGCCTGCTG	AAATCGCATC	ACCACGCGCA	GGCGAGACTC	CAGTGGAAT	CACCTGAGTA	360
	CGTGCAAGCG	AACCTGCTGC	GGAAATCGCA	TCACCACGCG	CAGGCGAGAC	TCCGGTGGAT	420
	ATCAGCTGAG	TGCGTGCACT	AGGCCTCGAC	TCATTGTGGG	CGACCGATGT	CACCTCACCC	480
	CGCGCAGGCG	AGCTTCCAGT	GGAAATCACA	TCACCACGCG	CAGGCGAACT	GCCTGTGGAA	540
	ATCACCTGAG	TACTTGCAGT	AGGCCACGAC	CCANCGTGGG	CAACTGACT		

1575UP

	GATCAAATAT	CAACTAAGGC	ACTAGTTTTT	GGTGTAGCTG	CTCAAGCATC	ACCGGATGCT	60
	CAGAAGCGTG	TAATTAACCT	ACAATCTCGG	ACTTCACCAC	CCAAATCTGA	AACACATTCTG	120
	CATATACGGC	ACAACGCTTC	TAGCGTGTAT	CAGTCGGAAA	CAACAKATAA	TATAACTAAA	180
45	GATACCGGGA	TGTTTCTGCT	AGTGAAGTCA	GGCTTTCCCC	ATATACAACA	GAAAACCATTA	240
	TCAGCAGGCT	CTGAACCTGA	TGACACTGAC	TTTCAGAGAA	CACAACTAC	CAGCACAGGC	300
	CCACTTCCAA	CTTCAAGCGA	ATATGACTCT	GCCCCGTGTA	CAGTTCATGG	AGGACTTGAT	360
	ATTTTCCCAA	GACCACCTTC	CTCTAGCTCC	ACAGATTTTCG	ACGAGTATCC	AACTGGTACA	420
	ATAACAGAGT	CACACAGACG	GCCTTATAAC	GTTAGCCAA	TTCCCGAAAA	TAATGGGAAC	480
	TCAGCTGCCA	CTCGTGTGAT	TAAGAGAAAC	AGTTCTGTTC	TCAGCTCGCC	TGGAAGCGTG	540
50	ACCACCACCC	CAATGGTTAA	TCRAGCTACA	GTACTCAGCG	CCTCGCCGGG	AGCGGTTAAA	600
	TTAACCAGAG	AACAGCATAG	TCCGGCATCA	TCTTCAGATA	TTTCCACAGC	CAATAAAACA	660
	CATTGGAATT	CTATTGATCT	AAAC				

1576RP

	GATCTTGTG	AGAACACTCA	ACATCGGCGT	AATTGCAGAG	CCCCGGTGA	CCATACCGAT	60
	TTTCTGTGAC	GCATTCTGTC	CATAGCTGAA	CCGTCTTACA	GGACCTTTGA	ATTCCACAGT	120
5	TTGGCCTGGC	TGTAGCCGAG	CAAACCATTT	GGATACCTTA	CCGTGACAT	AAGATTTGAC	180
	AATGATATCG	AAATGGCCCT	CGGCAAATTT	GTTGGAGATA	GGCGTGTAGT	AACGCACTTC	240
	TTCTACACCA	TCCAGCATCA	CCTTCGCAGC	TAAATGAAAG	CCAGTAGGTA	TATCAAGAGT	300
	TTCCACGCTT	GAACGGAGCT	TGAATCTGTA	TATCGCAGCA	TTTTTGCTTA	GAACGATCCG	360
	TTCTTTCCAAT	TCTAATGGCG	TCCACTCAAT	TGGAAGAATT	GAAGTCCTGC	TTCTGTATGC	420
	TAGTAGCAGG	CGTGCACCTA	CAAACATTGC	CAAAGCTAGA	ATGCCTAGAA	GGTACCATGC	480
10	GTTCCCGCT	GACCAGGCGA	TAACAAGAAC	GCCCAATGTA	AAGATGCCGC	TGGGGATGAA	540
	GATCCCATGA	ATGGGATCAT	CCAATATCTC	CATACCTCTG	CGTTCGGTCA	TACTAATATT	600
	TTGAAAGCTC	GTCGTAGCTA	TCGTCTAGTA	AGGATGAGAC	CGGTAAATAT	ATGCTTCCTC	660
	CTAGTTCTAT	AAGCACGGAC	TCTTTGCAAC	TGGTGAAGTA	TCGTCTAACG	GTCTATCATGC	720
	ATCTGCCGAA	AA					

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1576UP

	GATCAGGCCG	GACGGGTACT	TGCAGGAAGG	CCTCACGAAA	CCCAAGGGGG	GCGAGGAGGG	60
	CTTCTCGACG	TTTTTCAACG	AGACGGGCTC	GGGCAAGTTC	GTGCCGCGCG	CGGTGTACGT	120
20	GGACTTGGAG	CCGAACGTGA	TGCAGCAGGT	GCGCACGGGC	GCGTACCGCG	AGTTGTTCCTA	180
	CCCGGAGCAG	TTGATCAGCG	GAAAGGAGGA	CGCGGCGAAG	AACTACGCGC	GTGGGCACTA	240
	CACGGTGGGG	CGCGAGCTCT	TGGACGATAT	CCTAGACCGC	ATCCGCAAGA	TCTCGGACCA	300
	GTGCGACGGG	CTCCAGGGCT	TCCTCTTCAC	GCACTCGCTT	GGCGGTGGTA	CGGGCTCCGG	360
	CTTGGGGTCG	CTGCTTTTGG	AGCAGCTTTC	TATCGACTAC	GGCAAGAAAT	CGAAATTTGGA	420
	GTTTGCCGTC	TATCCCGCGC	CACAGGTGTC	CACCTCGGTC	GTGGAGCCAT	ACAACACCGT	480
	GTTGACCACC	CACACCACAT	TGGAGCATGC	CGACTGTACG	TTTATGGTCG	ACAACGAGGC	540
25	CATCTACGAG	ATGTGCAAGA	AGAACTTGGA	CATCTCGAGA	CCTAGCTTTG	CGAACTTGAA	600
	CAACTTGATC	GCCCAGGTCG	TCTCTCGGT	GACCGCGTCA	TTGCGTTTCG	ACGGCTCCTT	660
	GAACGTGGAC	TTGAACGAGT	CCAGACCAAC	TTGGTGCCAT	ATCCAAGAAT	CCACTTCCCA	720
	TTGG						

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1577RP

	GATCCGTTTA	GAGAAAAACG	GTAGCCCGGT	GAAATACGCA	TTTGAGTGCG	CAGAGCGGGC	60
	CGAGCCGTCC	GAAAGGTAGA	TTTTGTCCAG	TGGGAAGTTG	ACTCGTTTGC	TTATTTCGAC	120
	AATCGACGTC	TTTCTGCTCC	CGTCTTCCAA	CGGGGTGAGC	TTGTTGAATA	AAGCTGTAAA	180
35	AACTGGCTGA	AGAGCAGTCA	GCACCAGATA	GAAGAACAGC	ATCAGGATAG	AGACGTAGCT	240
	GACGAAGCCA	GTCGAGAACT	TTTCAATTAC	CTTCAACAGC	GCATAGGCTG	CAGGAGTGGT	300
	AATCATGGAG	GAGATCATAA	ACACTTTTAT	CTGGTCCGTT	AGCCATAGCT	TGACCGTGGA	360
	CTTGTTGAAC	CCGAATTTTT	CCTCGAGCAC	AAAGTTGTAG	TAATAGCTCC	CAAACAACCC	420
	CTGCCACCAG	TTTCACTGTA	GGTAGACGAT	CAAAAAGTAC	AGCGACTGCG	AGATGGTCCA	480
	TACTGGCACC	AGCATGGCGG	GCATGCGCTG	ACCTACCGCC	ACTCCTAGGT	TCCACATCCG	540
	TGGCAACCCAG	TCGTACTTAA	TCATTACCAG	ATTTAGTCCC	AGGAACACCA	GATCTCTAAC	600
40	CATACGGTAG	CGTTACTTTG	CCCGCTCGTA	CGCCTGCGTC	TTTTGCATTG	TTTCTTTATC	660
	AATAACGCCC	TCCAGTTCCG	TGGGTA				

1577UP

45	GATCTTTCGAC	ACTATGTAGG	CCGCGTAGAT	GAGCAACATT	ACCACGCAGT	CCAGGACGGA	60
	CACAGCGTTC	ATCAGGCATA	CGTAGCCGAT	AATGCAGACG	GCCAGCATCG	CAAACAGTAG	120
	GTCCACGATG	ATCGAATGGC	GCTCCGCCGC	GCTAAGATTT	ACCCACGCAG	ACCTCATCAC	180
	CATAAATATC	GCGCCCTGTA	CCACACAGAT	GATAACGCCG	CAGGCGCCCA	GCACCTCACC	240
	CACAGACAAG	GCGGCGGCAT	TGTTGGCCGC	GTTCCACGAC	ATCAGACTGG	AGAACAAGTC	300
50	GGGCGACGAA	TTGCACCATG	CCAGTAGGAT	GGCTGCAGAG	ATGCCCTTGT	GCGGCGGGTT	360
	CCGTTGGCTC	GTCAAGGTCA	CCACTATGGG	ACATAAATAA	TCAGAAGCGG	AAACGCCACG	420
	CAACACAAAA	CACACGCTCA	GATGTAGAAC	CGTCAGCACC	ACGAACCCAG	GGATAGCTTG	480
	TTCTCTCTCGT	ATAGATACAC	TGGATGTGTG	ATCCGTGCCC	ATGTACTTGG	TGCATGGTCC	540
	ATCCTTGCAC	TCTGCCTTTC	CAGGTACTTG	GTAATAGTAG	TGGTAGCCAC	CGCAACACTG	600
	GTCAAAAAAGC	ACACCTRAAA	CCTCAATATG	TAAGGCGTGC	GAATGGTAGA	TGCGTTATTT	660

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AAAATGCAGT GCTTGAGATG AACAGATAGA CTGGTGCCC

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1578RP

	GATCATCCTG	CTGCGAGTTG	AAGTCATCTT	GCGATTCTTT	CATGCATAGG	AGTTGGTTAG	60
	CACCAAACAT	AGGATTTCAT	CTCAAGTCCA	CCTGCGTTAA	CCGTTCTGTC	CTATACTTTA	120
5	AGTAGTCGAT	GAAGTGTCTT	GTAGAGTGAG	CCAGGTTAT	AAAATTAAAC	CTGTGGGAAC	180
	TATCCCGGTC	TAGTCGGATG	AGATTATCGG	TAATCTTATT	CACGACACCC	CAGTCCCTCGT	240
	TCGATAGACG	CTGGCTACCC	GCAGCCTCAT	TCCGCAACTC	CTTATCGATA	TCTATTCCAA	300
	GGATCTCGTC	CAGGAGAAATG	CTACCATTTT	TATCGTTTCG	AATGAACCTG	CCTCTACATC	360
	GAGCAAAGCA	TAGGTGTTTA	ATGTGGATAT	CCGCTAGATC	GAACCCAGAC	TCATCGCCGA	420
	CTTTCTCTGT	ATCTAGCCCA	AAACCATGCA	TTAGCAGCTT	CAAGACAATC	GCCACAAGCT	480
10	GCGATTGTTC	CCATGTCTTG	CAAGGAAGCT	TTACGACATA	TGGGATTTCG	TCATCGCGGC	540
	CATGTTCAAA	GTTTTGCAGC	ATTAGCACGC	AGCTAGTGGA	TGGGGTGAAC	ACGATCCTAG	600
	TAAGGACCGC	GACGAACCTA	ACCTTCTGTG	CTACAATATC	ATCACTGGAG	AAAAACCTCA	660
	GAAGTTCCGC	GG					

1578UP

	GATCTTTTTT	TGGTCTTTTT	CCTTTAAACA	GAATAATAAT	TGAACAGGTA	CCGTATTATC	60
	GCCGCATGCT	AAGTGCACCT	TTGACCGAGA	CACTTTAGTG	ATATTTATTT	TGGTAGTGTC	120
	CTCGTATACG	TGGGCCACGA	CTTCTTTGCC	ATTAATCTCG	TCCTTGGCGA	AGCCGTCCTG	180
20	GTAGCATCCT	AACGCACTCA	TTAATGCCAA	TGATCGCGGG	TTGATCGCCT	CACGCCCATC	240
	CGAAACAACA	CAGACACATA	TCCGTTTCCA	GGCATCGGGG	CCCCAAATAT	CAGAACGCTT	300
	CCGTCCAGTG	AAATATTTTA	TGTTGTCCAT	GACGCCTTTT	AATGTCCGTG	CCAATAATAT	360
	GTCGTTTTTC	TTGTACATCG	TTATCACGAT	CATGATTTC	GTCCCTACGCG	GTACAGCGTA	420
	TTTTAATTGT	CTCACGGTAA	AGTTCCTTAG	CTGAAACTCA	GCTGGCTCAC	AGGTGACAGC	480
	CTGATATCGC	ATGAATTTGT	ATTCGTTTCG	GAAGTAATCT	TCTCTCATGC	CACGTGCGTA	540
25	CTGCGACACT	AGCTGTTTAC	TGACTGGACA	ATCAAAGATA	AAGTTTCCTC	GATATAGCTT	600
	GAACTTTCGT	AATACAATGC	GATTTTTAGG	CTGTTTCGAC	TGCGGTAAAC	CACTCAGAAG	660
	CCGTTCTGAG	CTGAGATCGC	TGCAGTCGCC	AGAACCCTCG	GAACCGGAGT	ATGCCGATTA	720
	GGCGCTACGC	GAGAGAT					

1579RP

	GATCGAAATA	CCACTGATCG	ACCGCGGTGC	CTCGCTTTGC	AGCTGCTCCG	AGAGCCGCTC	60
	TCCGAGATAC	CGCGCAGAGC	ATGCCTTTTC	CAACACCATC	TTCTCGTACC	GTTCGGGAAG	120
	TGACCCCTACT	ATACTTATGA	TAATGACCTT	CTTGTCCTTC	AGAGTGCCCT	CTGTTTCCTT	180
35	CTTCAGGTAA	AGGTGCGATT	CTCGGCCAGG	CTCGTAGTAG	CCACGGACCG	CAGACGCAAT	240
	CCGCGTCGTC	CACGGCATGG	GATGGAAGTA	CTCCACCGGA	GAGTGGCCCG	GCAGAAGCAC	300
	CGAGTTGTTT	ACGCCGACCA	CGTACTCCGA	CTGGTGCTCC	AGCGGACACA	CCTCGAGCGG	360
	ATACTCCTTC	AGCGGCAACT	GGCAGTTCTG	TGACCCGGTG	TTCCGCAACG	TCAGCTCGCC	420
	CTCGACCGAG	CCCGAGACCC	CCGCCATGTC	TCCCATGTCC	GGCAGGTACT	CCGTGTGCCA	480
	GCACCAGGAG	TCATTTCCCC	GCGCTACCGC	CTGCAGCGCC	TCTTGCTCCA	GCGTATGCAC	540
40	CTGCTTCGCA	GTCAGCTGAT	GGTACTCCGT	GCTCTGGTCG	ATCAGCAGCC	CGTCTCTGGG	600
	GGTCTGCCAG	AACGGCATCC	ATCCCACCAC	GCTTTGTAGA	AACGAGGTCT	TGGGGCGCCT	660
	GCA						

1579UP

	GATCGCACGG	ACCGCGAGAC	GAGTTCTCTT	GTTTCTGTCT	ATTGGCGATG	GTAGGCCGCG	60
	CTGTTGCACG	TGACCTGGGG	ACAGCAGACT	TGCGGTCAAA	ATCACCTTA	GCCTCAGCTG	120
	TGATGACATC	AGCCAAAACG	GCCGTCGGTA	AACACCTTCC	GAGGCGTTCT	TMGACTTGAG	180
	GATCAGTTTA	CCGTGCTTAC	CCTTCCCGTG	CGCCTTTTCG	AAGGACTCGC	GGAGCGTCTC	240
50	AATATCTTGT	GAGAGCTGTT	CCAGCGAGAT	ACCTCTTTCT	GGAACTGAGG	AAACCTGTGC	300
	GCCCAACGCC	AAGGCAGCAT	GCGTTGCCAG	ATAGCCTGAG	TTACCAACCT	GGACATGCAC	360
	GACAAAGACC	CGCGCTCTTG	TGGAGGCTGC	CGACTGCTTC	ACAACATCAC	AGTACTCCAT	420
	TAGGGCATTC	AGAGCTGTGT	CTGAACCGAG	CGAATACTCA	CTGCCCAGGA	CGTTATTCTGA	480
	AAGTGTGTCT	GGAATGAGTA	CCATTGGTAT	TCTGAAAGCT	GGGTAGTTCT	CACGGGCCCC	540
	CTCCAATTGA	TGCAAGGAGA	CGAAGGCTCG	AACCCACCAA	CAATAACCAA	GCCGTCAAAC	600
55	TTGTACTTTT	GGAAGTAGTA	GGCAATCATG	CCAATGTCTG	CATCTTCTGG	GACAGTTCTG	660
	TTGGTTCCCA	ACTCGGAACA	CCGCGAGATT	GCCAGCCAAG	CATATCTTTC	CAGTTCAACG	720

1580RP

	GATCCGTTGTC	GACAAGTTGG	TCACGTATAT	ATGGCGCGTG	TTGAGCGCG	TCTGCGTGTA	60
5	CCCCGCCAAC	CAGCAGCGCT	GCCATCTCGA	AGACATCATG	CTCTTGCGTG	TGTACTGCCG	120
	CGAGGCGCGG	GGGCACCCGC	TCTTGCTCAT	GGCGATCGTT	CAGGCGGTGG	CGGCACGCTA	180
	CGGGGTGCAG	ACGCTCCTCT	GCGAGCAGGT	ATTGATCATC	ATTGACCGCA	AGTTGCGCGG	240
	CGGACAGTCA	TACTTGATGA	TCCCGCTGCG	AGGGAACGCA	AAGCCGCGCA	TCTTCACGCG	300
	GCGGCGCTTG	CTCGACACTA	TGCGGCACAC	AATACCCAAC	ATTGCCGACC	CGCGGAGCCT	360
	GGCGCTCGCC	CGGTTCTCTA	CTCCGCTCAC	GAAGCGCGCG	GGTGCTGAGA	AAATCTTCAA	420
10	AGACTGGTCC	ATCTACTGCG	ACAAATCCAT	ATGGCGGACG	ATCCCTGATC	ACTCGCCCAA	480
	TGGCATTCTG	CGCTACCTCC	CGCACTCCTG	CACGCCGATG	GACGAATCCA	TCTTTGAGTA	540
	TTTCATCGTC	TATTGGAAAA	CCGCAACAGC	AAACCACTCC	ACGAACAACA	TTTTCCACAC	600
	CGTTCTTCTC	AAGCAATTCT	AAACGATCTT	GGTCAAGAGT	ATCCCGGCGA	CGCATCCACT	660
	TTGTGCGATTG	CCGGGAGCAG	CTCATGGACT	CCATTATCGA	GATGTCTTTC	GCGAGTCC	

1580UP

	GATCCTTTTTC	ACCAACAGCT	GTCTGGGCCA	GCTGCGGCCT	GGGATGAACT	ACAACGAGGC	60
	AGTGAAAGCG	CTGACGAACC	TGGCGCTGGA	CAGCTTTTACA	CTGCCGGGGG	ACGGTGGGGT	120
20	TTCCGCTGAA	CAACGTGTAC	TCTGTGCCGG	TAGAAGACGG	TGCTCAGATG	GAGCTGCTGA	180
	AGGGGTACCT	CGCAGCAGTTG	CGGCAGGAGC	TGGCCACGCG	CGTGTGTATG	CGTGTGTATG	240
	GGGCGGAAAA	GGCACAGCCC	TCGAAGTTCT	GGCTGGCCTT	CACAAGGCGC	AAGTTTATGA	300
	ACAAGGCGCT	GTAAGGCGAA	ATAGGTACGT	AGCTGGCGGC	GCCAGGAAGT	ATTTACAAAG	360
	TTGGCTGTAT	CGCTACGAGG	TTTTGGTGGC	GTGTGCCTTG	TTGGAGCGCA	CGAGGAGTTC	420
	AACGGCGGAA	GCTCGGAGCT	GTTCCGCGTC	TTTCACGATC	GCGTTACAGT	CAATGCTGAG	480
25	GTCGGTGTTT	TTGGCGCGGA	AGCCTGGAT	CCGCGCCTGC	AGGTCTGTCA	GCGCTGGAG	540
	GACACGCTCA	TAGTCTGCAT	CTTCTTTTAC	GCGCTCTTTG	TATGTTTGA	AGGACTGAAC	600
	GATGTCTTCG	ATACCGGGCT	CGACTCTGCT	GATCATCTCG	ATGCGCTGGC	GCAACAACCTG	660
	ATCGCGGTCTG	CTGTTGGCGT	CGCGTCCCTA	ATCATCTGCT	GGATT		

1581RP

	GATCTTAATT	TAAAATTTTA	ATTAACTATT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACT	TAAGATAGTA	AGAATAAAAT	TAGTAAAAATA	120
	AATAGAAAAC	CATAAGTTAA	TTGATTCATA	AAGAAAAATG	GAATTATTTG	TGGCATCTTA	180
35	ATTTTTATTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTTAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420
	TTTCATAATA	TTTTTTTTTA	TTAGTCTAGT	AATATTTCTA	TTTAATAGTC	TACCCTTTAA	480
	TTGGATATTA	CTACCTACTA	AATATTTACC	TAATAATATA	TTATTAAGAA	TACTTAAATC	540
40	TAATAATTTA	TTATCTAAAG	TATATAAATT	AATTAAATCT	TTTTTATTAT	TATTCTAAAT	600
	TATTATTAAT	TAGTAAATTA	TATTTATTTA	TTTTATTAAAC	ATAATTTTTG	ATAATAATAT	660
	ATCAT						

1581UP

	GATCAATTA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
45	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAATGA	ATACTACTAA	ATCATCATCT	120
	ATTGAGTTTA	TATTAAATTC	ACCACCTCTT	ATTCATTTCAT	TTAATACTCC	TCTAATTCAA	180
	TCTTAAAAATA	TTCTTAATTA	TTAAATTATA	TAATAAAAAGT	TAGTGGATAT	AGTTTAATTG	240
	GTAAACATA	TGTTTTAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATTAT	300
50	ATCATTAATA	TAATAACTCT	TTAATTAGAG	TGGTACCACA	AGAATGCTGA	AAGCATTAGG	360
	GGTGTGTACC	TTAGCTCTCT	AATFAAAGTT	ATAAAAATTAT	CTTAACTAAT	AAAAATAATT	420
	AATTAAATAA	ATAAATAATT	AATFAAATTT	AAAATGTTTA	AAAAAAGAAA	TAAATAATAT	480
	GTTATATTTA	AATAGATCAA	AATTTCAACA	ATTTCCATTT	CATTTAGTAC	TACCATCACC	540
	ATGACCAATT	GTTACATCAT	TTAGTTTATT	AGGTTTACTA	TTAACTTTAG	CTTTTACTAT	600
	ACATGGTATT	ATTGGTAATA	TTTATCCTTT	ATTATTATCT	TTATTAGTAG	TTTTTACTAT	660
55	AATAACTTTA	TGATTTAGAG	ATATTGTAGC	TGAACCTACT	TATTTAGGTG	ATCATACTTT	720
	AACGTGAAGA	AA					

1582RP

	GATCTCAACA	CGGTCGTTGG	AGAAGTGTGC	AACACACGAG	TACGTAGTAC	CCAAATCAAT	60
5	ACCGACTGAT	TTAGACATGA	TCAGTGATTA	GAAAAAGAAA	TCTCTGGTTT	TCGGATAACC	120
	GGGAGAAATA	CCAATGGTGA	TAACCGTACG	TAAGGCCAGA	GGTACAAAGC	TACTCCAATC	180
	TGAAGCTACA	CACGCCCAAC	CCTTTTATAC	AATTTCAATT	TTTTCTCTCC	CAAACGAACA	240
	TGGCAGATAG	TAAGAGTCTT	CGAGCCCAAT	GCCTGTTCGG	TTTTTTTTTG	TTCTGGAAAA	300
	TTCTACCATA	ACGTATGTGG	CCGTTGAAAA	CTGATCAAAC	GGGTCTCGAA	GATCTTAGAA	360
	TAGAGGCTCC	GACAGAAAGG	GGGAGGCCGA	TTCAAAAAAG	ACCGCATGAG	CCTCACTCGT	420
10	GCTTCGAGGC	GGGAGAGCCC	ATAGGCTTCT	TTCCAGCGGC	CACCGACGGT	TTCTGGAAAG	480
	GAGCGAAAAC	AGAGAATGAA	CCGAGGCCGT	TGATCTGCAT	CTTGGACTTG	CGCTAGGCCC	540
	GTTTCAACTG	AGCGGGAATG	CGTGGATGCG	AAACTACGCC	GTCCGCAACG	ACCTCCCACT	600
	TCCGTACCAC	CGCACGCATG	TTGGCCGATT	TTCGTAGCGC	GCCTTGATGA	AAAGCGAGTA	660
	TAGAGCCAGC	ACAATCCACG	AGCGGCGGCG	ACAA			

1582UP

	GATCTTGTTT	TCCGCATCCA	GATACTGGTC	GAAGCGCGAG	TTCATCTCGT	CTACAATCGG	60
	CTTCCACGAG	TCGGTGTTAT	CTATCGCGTC	CCCGAAGCCC	GGCGTGTCCT	CCACCGTCAA	120
20	CTTCAACACC	ACGCCGTTCT	CCTCGATCTC	CGTCGTGACG	GTCTCAATCT	TCACCTTGTT	180
	CTCGCCGTCC	TTGGCCCGCG	ACTCGTGGCC	GTCCCTCACG	TCCTCAAGCT	TCAACGCGTT	240
	GAAGTGCTCC	GGCGTGTCGT	CCTTCGCCGT	GTATAGCTCC	TTGTTGAACA	ACGTGTTGAT	300
	CAAGGTCGAC	TTCCCAACCC	CCTTGGCGCC	CACGCAGAGC	AAATTGAGGT	TGAACCCGCG	360
	CCGGATCGAC	TTGCGATGCC	ACTGCTTGGG	AAGGTTTTCG	AACCCACGTT	ACCCCGAGAT	420
	CTTGCCTGGG	ATGATCCGCA	GGTCTGGCTG	GTCTGGCAGC	ACCTGGCCCG	CCGCGAGCTC	480
25	GCCACCCAGT	GCCGTCGCCA	CATTCTCCTT	GTCGTCCGGA	AGGTCCAACC	CCATCTCCTC	540
	CTCCTTCACG	TTCAATGTCCG	AGCTTGTGTC	CTTCGCGCTC	GCCGTCCCGT	TGCTCATTAG	600
	TGCGCCCCCG	TGCTGGTTGT	CACGCCTCCC	GCCGTCTGTT	CACTGTTGGT	GTTTGCCGAA	660
	TCTCCTGCG	AGCCTGTAGG	TAACATGCTT	GTTCTGATTT	GGTAGTC		

1583RP

	GATCAATTAC	CCTGGCGCCA	ACCATATTTG	GATGAATATT	TGCATTGTTG	CCGATAGGGG	60
	TTCCCTCATC	GTGTATGTTA	TAGACCTTCA	CGTCTTCATT	AAAAGGGCAT	GTGATGACTT	120
	TCTTGCTGTC	GGCAGAGAAG	GTCAAACAAA	TTACAGATTG	TTCTGTACCG	GCCAAAACCT	180
	TATAAACCCCT	GAAGTTGTTT	AACACGTCAT	ATATGAATAC	CTTACGATCG	CTGGAAGGGT	240
35	CAGTGGATGC	ACTGGCCAAA	TACCGACCAT	CTGGTGAGAA	TTGGAGGTAC	CAGATTTTCT	300
	CTTTATTTTC	CGAAAGAGTC	TTACATGAC	TGAAATTGAA	CATGCACATA	GAGCCAACTG	360
	TATCTTGAAG	CAAGTTATAA	GTGGTTTTCT	CTCCAGAACG	GTTTCCTTCG	TGGTTGTGAG	420
	GATCGTCGCT	GAAGCTTAAC	AGGTGCGCTG	ACCGCTGGAA	CTGTATAGCC	TGTTTAAACA	480
	ACGTAATGAG	CCTGCCCCGT	GGAACCAAAT	CATTGCGGTT	GATATATTGT	GAAATCTGAT	540
	CAAGCGCCAA	TTGCCGCGAG	GCTGCCAGAG	ACCCCTCCCA	TATTTTGTGT	GCCTCTGCGG	600
40	ATTCCGCGAG	ACACGTCAAA	ATAGTCGTCA	CTGCAGAGAA	GCTGTGTGCG	GAGTCATAGC	660
	CCACTCTCCC	TCGGGCTCCT	CCACCATAGA	TATGGTCTGT	ACAGCCACAG	CGAGTCC	

1583UP

	GATCGACTGG	AAGTACACGT	CCAGCGACCG	GTCAAGGCCC	ATGTCCTGGA	CGGACTGCTC	60
	GAAGGTCTTC	ACGAGGTTCT	TGGCGATGCG	GAGCATTTGT	GTGCGGTCTG	GGGCGGGCGA	120
	CGCTGCGGAG	GGCTCACCGA	ATTTGCTTGT	GCGTGTGGTC	ACGTGACACT	TGGGCCGCTG	180
	GCCCCGCCGG	GCCCCGCTGG	CCCGGAATGG	CTGCCCGGCC	CTGGCACGCC	GTTCTTGCAA	240
	TCACATGATT	CATGATTCCG	CTTTTGGGGG	GGATCACTGC	GCAGCCGTTT	TTGCTGCTTT	300
	TAGCCTCCCT	GACACCCCTG	GCTGCGTCTG	GACGCAGGTC	CCC GCCGGCT	GTCCGCTGCG	360
50	TGGCTGTACG	TGTGGGGTGA	CGCCATTTTG	TGGGACAGCG	GCGACGCATG	ACGACGAGCT	420
	CGGAGGGTCC	GCCGTTGACG	ACAGCCCCCT	AAAGGAGTTT	CTTTTATTCT	ACGCGGCCCC	480
	TCAAACACTA	TATATGAGCA	AAGGCAGGAT	GGAAGGTAGG	CTAAAGCAAG	AAAAGACCTC	540
	GACCAACGGT	ATCGAAGTCT	AAAATCTTAG	CAGGTACCAG	GATGTCTTTT	GAAGATTTGC	600
	ACAAGGCGCA	ACGCGGGAAG	GTGAGGAGAG	CAGTGGACGA	AATATGTAAAG	GATTTCGAGG	660
55	TGACGGAGGA	CAAACCTCCG	GAGTTGACCG	CGTACTTCAT	CGAATGTTTG	GAACAG	

1584RP

	GATCCAAAAA	GCCTTCCGGG	CGCGGGCACA	TTTATCACAC	CCGCTGTGCT	TGACGGCCTC	60
5	GACAATACAT	CCTATGACAT	GCGTAATCCC	TCCTATGTTG	TTCCGACGCG	GCGCAAACGT	120
	GCCAGCGTCT	CGAAGGCTTC	GCGCGCGAGC	AAGAGTTCTT	CGCCCTTGA	AGAGGAGGAG	180
	AAGCCATTTA	AATGCCAAGA	ATGCACCAAG	GCCTTCCGCC	GCAGCGAGCA	CTTGAAGCGC	240
	CATATACGCT	CTGTGCACTC	ATCGGATAGG	CCGTTTCCGT	GCACCTATTG	TGATAAGAAG	300
	TTCAGCCGCA	GCGACAATCT	GTCGCAGCAT	CTCAAGACAC	ATCGCAAGCA	TGGCGATATA	360
	AAAGACACGC	CACCAACCAC	CAAGAAAGGC	TGACTTTTCAC	ACATCTATGC	GAATACCCGA	420
10	TGTTGCATTA	AGAGATACAT	ACAGCGCATA	CAAGCTGACA	CAACGTCCCG	TACGCCAACA	480
	GAGGAGATGA	TAAATACTAC	ATACTCAATA	TATCAATACC	TCCTACTTTT	GGTAATCATA	540
	TATAACTGTT	TTCTTTTCGCA	CTGTTCTGGT	AACGTTGTCA	TAGGTTTCCC	TGTTGCTGCT	600
	AGCTGGCCAG	GATTCCCTTA	ATGGATGAGG	TCCGGCGCGC	AACCAGACAA	AAGTTGCGCA	660
	GCTTAAGATA	GTTGGAC					

1584UP

	GATCCCATT	TGTCTTCTTC	GGCTACCGGG	ACGGCCAGTA	GAGCATCCAG	AATAGATGTT	60
	CACCAGTAGG	CTTGCCAAGT	GCTCATTAGT	TGCCGTCACA	TGGCTGCCCC	TGTACATGAC	120
20	AGTGACACAC	CATGTTGTAT	TCATATCGAA	GGTGGAAGGC	CCCTCGATGC	GCCCAACGCT	180
	CAATCCAATG	GACGGAGTTG	CATCGGACTG	GGTTTTGGTG	TGGAAGCTTG	GAAAGACTAA	240
	TATTCCGGAAC	CTGAATCATG	AGGACGTGGT	GATCTTCCGC	TCACCCATGA	ACCCCAAGAA	300
	AGTATACTGC	AAGCGCATCC	AGGGTAAGCA	GTATGATACG	GTGCGCACGC	GGTATCCTTA	360
	TCCGAAGAGT	ACCTGCGAAG	TGCCAAAGTC	GCACATATGG	GTGAGGGGGG	ACAATGTTCAC	420
	GCAGTCGGTG	GACTCGAATC	ACTTCGGGCC	GATTTTCGACG	GGGCTTGTGG	TAAGCGAGGT	480
	GACACGGGTC	ATATGGCCGC	CATCGAGATG	GGGCGCAGAC	CTGCACGAGG	GCATGGGTTCG	540
25	ACGCGCAGTT	GTTGCTTCAT	GATTGCGGGA	GCCGGGGTAG	GCGAACCTAC	CGCTACGTGT	600
	ACATAGCTGA	AAGACTAGAT	ATTATATAAT	GTCGAACAAC	GTGCTGCACT	GCGGCAGAAG	660
	GATGGCTTAA	GAATCGTTGT	CCTCCTCCTT	GACGATCTCT	GGGAAA		

1585RP

	GATCCCCGTT	GTTGTGCACG	TGTGATTCAA	TATATACATA	CTGCAAGTCT	GTACATGTGC	60
	TCTATTATAT	ATGGTGCTCA	TGTTGCGCTT	ACATTCTTTC	TTTATACAGT	TCATGTCCTT	120
	CCGTCGTGGC	ATACCCAGTG	ATGCCCGTCA	TACCTGGTAA	CCACAGTTTC	TATAATCATT	180
	CAGGCTGAAC	TGATCAATGG	AGCTGCGTTT	GCCGAATTTG	ACGCAGAGGT	TTGTATACAC	240
35	ATTGATGTCC	GCCCTCGTAA	AGCCCTTGCT	AAACGTGCAG	AAGCAATTCT	TCCGTTTGGA	300
	ACACGAAGTG	CAAGGCTTGA	ATGCTATCAA	CTTATCCACA	TGCTTCAGCA	GCGTCAGTTC	360
	CTTTGTGAGC	AGCGCCTGCC	TCACCTCGTC	TGGAATCTGG	CTAAGCCACT	CGTTTGCCAG	420
	CTCAGACACA	TTTACC GGTC	CGTGAAGCAT	CTCGTTGAAC	GAGCCTGTGA	CCGAGGCGTC	480
	CTGGAACAGT	ATCGTGATCG	TGGCGTCACA	CTTAATCTTC	TTGGAGCGGC	AGATGTCCGA	540
	GCTGGGGCCC	GTCCGCTGAC	GCTTGACTTT	CGACGCCGTG	ATAACGGTTG	GCTCCTGTAG	600
40	CAGCGAGTTC	GGTGCGGAAC	AGTGCGCTGC	ACGTCCCCCG	TTGGAAGCCC	GAAGCAGATT	660
	CCGACATCAG	CGGCGACATC	GACACGCCGC	GCGCGGACTC	TGGCGAGCGC	GCGTGT	

1585UP

	GATCACTCTA	CGGGGGACAG	TTGATTGAGT	CCAGTGACGT	GAATGTCAGA	GAGTCACCAT	60
45	TTTTCAACCT	ATGACCCTCA	TCGGCCAGCA	TGAGTCCAAC	CTTGCGAGCCT	TTTAAATTTT	120
	CTACATTTTC	CCGCAGAGTC	TCATAGGAAA	TAATCAATAC	AGGCTTGACT	ACATTACGGC	180
	CCTGGGCAAT	CGCCCACTGC	CTGACGGACT	GTGCAACCGA	GCCGTTTCGAA	AGGGAACCTT	240
	TACGTCCATC	GATAGCCAGT	GGCGAAAGGG	CATCGGGTCC	CAACCACTTC	ACAATCTCAT	300
	TAGCCCCAGT	ATTAACCAGG	GACGAAGGGC	AGACAAATGAT	GCACTTTTC	ATTGTAGGAC	360
50	GACCTTGGGA	GCCCTGCGGT	AGTAGCGTCC	ACATTAAACGC	TATACATTGC	AGCGTTTATC	420
	CTAGACCCAT	TTTCATCAGCC	ATAATACACC	CATAAGCCCC	CCTATTTGAT	TCTCGAGTCA	480
	TAGCTGCATT	GGCATCCAAG	ATCTCAGGCG	AAGGCGTCCG	CGTCGGCGTA	AGAAATCGGCG	540
	TCGGCGTCTC	CTCAAGCACC	TCCACAACCTA	TTGGCTCACT	ATCTTTACTA	CCCGGATCCT	600
	TACCAGTGGC	ATCGTCTTGC	ACCTCGCCGG	CTGCCAAGAG	AGCCTGTGTA	TCCAAAAAAT	660
55	CCTTCATCGC	CAGACCAATC	ACACAGCGGT	ACAGGAATCT	TACCCCTTCC	ACTTGATGAG	720
	GGCGTTAAAT	CCGCGCCAGA					

1586RP

	GATCAGGCGT	AAGGGCAGGA	TATGAACTAT	GGAGACGTCT	ATTTTAAACT	CAATGGCATA	60
5	TAAACACCGC	ATATTTCTTG	TGGTTATGAT	AACCTTCAATT	ATCGAATCAG	TCGCAGCGTA	120
	GAGGGTTGGT	GAGAGTTTAC	CACGATATCC	AGTTGTTGCT	GCGCCCGCAG	CACCAAATAT	180
	AACTGAGAAT	TTAAGTTTCT	CGAAGAGAGT	ATGCAACGGG	GGCTTGTTCA	CTACGATTAA	240
	AAGAGCACCA	GCTTCTCAT	GCCTTCAACT	ATGTCAATAT	AAATATATTG	CAAAAGGCTT	300
	AAGCTCTGTA	TTGAGCCCCG	GAAATGTTTC	TAGCAATGTA	GCTCTCTCAT	CTTCACATTA	360
	GGCTGCGAAT	GTGCTGACCA	ACTGCAAAAA	CCCAGTCATA	TCGTAAATAG	TGATGATAGT	420
10	CAGCGCGATA	TTTAACCGCG	GGTGCAAAAA	ATTGATTTTCG	CCCAGGATCG	AACTGGGGAC	480
	GTTCTGCGTG	TTAAGCAGAT	GCCATAACCG	ACTAGACCAC	GAAACCAACC	TTGAAGAACC	540
	CACGCCGCGA	AACCGACCAA	CACAACCGGT	GCAAACCACG	TGCCTGACGA	CTCTTTAGGC	600
	GTGTGCTAGG	GGGGCGCCCA	CTCGTACTTA	TTTTATAAAC	CTTGGATCCA	GGTGCGTCCA	660
	TATACAGGGC	GATCCGCGCC	ATCTGCAGCA	GCCAGGAACG	CA		

1586UP

	GATCAACAAA	GTCAATCCA	AAATTGTGCT	GGGAGAGAAA	AAGATTCCGC	CATCATTGGG	60
	CCTTTTCTAT	AGCCATCAAT	TCAACAATCG	GTTAAGCGAT	TTGAAGCCTT	CAGCCCTTTA	120
20	TGAGGGTGAT	CCTGAGAAAC	AAGATGGGAC	TGCTACCGAT	GGAAGCAGCG	GTAGTGTTCA	180
	TGGGTATGCC	ACTGATGATG	ATATCTTGTG	CACAGCGGAG	AACACCGTTT	ACAGCCTAAG	240
	CCAAGGGATT	GCATATCATA	TAGATGAGGA	AGGAAACTAT	TATTATGCTG	GTATCGATCC	300
	GTTTACTGAT	GCAATTCGAAC	AAGAGGCAGA	TTGCTTATAT	CATGAAAGTG	AGGTAGAAAG	360
	CGTAAATGTC	AACAACCTTG	ACCATCTTTC	TTCCGATATC	AAGGAAGAAA	ACATAGACCT	420
	CGATGGTAAC	ATAGAATTGT	ACGATTCTGA	CTTTGACCAC	ACTTCCCTCG	ACCAGGTCCC	480
25	GAAGGCTACA	GAAACAATCG	AAAAATACAA	TAATAACCAA	TACTACAAGA	TGAACACGCT	540
	AATCACTGAC	TCATCAAATT	GCCAGGGCAA	CACGTGAGCG	CTCTCATCTG	ATTATGGAAC	600
	AACTTCCGTG	CATGTTGAAA	ATGTCTCTAA	TGAGAATTCC	TTGGGGTCAT	CAGGCTACAA	660
	GGAGATATTC	CTGAAACTA	TGATGACTAC	CTTTACGAAG	GGGACGAAGA	TGATTTCGAT	720

1587RP

	GATCATCGAG	AAGGAGCTGG	AGGGCGTG	CATCCGGCTG	AACAAGTCGC	CTCCGGACAT	60
	CATTGTGAAG	AAGAAGGAGA	AGGGCGGTTT	ATCGATCACG	AACACAGTGC	CGCTGACACA	120
	TTTGGACCAC	GACGGGATCC	GCGCGGTGAT	GAGTGAGTAC	CGCATCAACA	GCGCGGAGAT	180
35	TGCGTTCCGG	TGCGACGCGA	CAGTTGACGA	CCTGATTGAC	GTCTCTGAGG	CTCCCAGCAG	240
	GGCTTACATG	CCGGCTATCT	ACGTGCTGAA	CAAGATCGAC	TCGCTGTGAG	TGGAAGAGTT	300
	GGAGCTGCTG	TACCGGATTC	CGAATGCTGT	GCCTATATCT	AGTGGACGGG	AGTGGAACTT	360
	AGATGAGCTG	CTCGAGGTCA	TGTGGGATCG	CCTGAACCTG	GTGAGAGTTT	ACACCAAGCC	420
	CAAGGGGACC	ATGCCCGACT	TCAATGACCC	GGTTGTGTTG	CGGTGAGACC	GTTGCACAGT	480
	CGGGGATTTT	TGTAACCAAA	TCCACAAJTC	TCTGGTTGAG	GAGTTCCGGA	ATGCTTTGGT	540
40	TTACGGTAGC	AGTGTGAAAC	ACCAGCCTCA	GTACGTGGGT	CTTGACACAC	CTCTAGAGGA	600
	TGAAGACGTT	GTGACAAATC	TGAAGAAGTA	ATGTCCTGGC	ATTTATGCAT	GGTTTCAATG	660
	CACACGTTCT	CGCGCTGC					

1587UP

	GATCCTAATA	AAAGCTTTTC	TGCAATTGCT	CTACCTACGC	CTGGAAGGTC	GCGTAGGGCA	60
	CACGTTTCAA	ATAGATGTGC	AGGAGATACG	ACCTGCGTAT	CACCCCTTTC	AATTGATTCT	120
	TTAGTGCAAA	CCAGATAGCC	ATCAGGTTTC	GCACGTTTGA	AAGCCAACCG	GGCTAGAACT	180
	AAGGACGGTG	CGCACCCAC	GCTTACCGAA	CAGCCGCTTG	TGCGCTCTGC	TACTTCTGAT	240
50	CGGATCGGTA	TACACAAGTT	TTGACAACATA	AGTGATTCGA	GCGGCATGTC	AATAACACAG	300
	ACAGCCTCAT	CCACCGAAAT	TGGATACACT	GCGTCGAAAG	CCTTTAAACC	CTCCAATACC	360
	TCGTAGAAGG	CATTGCAAAAT	CGTTTCGTAT	TCATCGTAGG	TATAGGGGAG	GCAAACCACT	420
	TGGGGGCACA	AGTTCCTTGGC	TTTGGAGACC	CACATGCCAT	TTTGTATTCC	ACATTCCCAG	480
	CGAGCATAAT	TACAGGAGGC	AACGTCCGAA	GATGAACCCC	CATGACACAC	TGCCAACCGT	540
	ACTTCGGCCT	TGCTTGGATA	GCCCGCCTTG	ATGCCGTGAA	TAGTCGCAA	AAAGCAATCA	600
55	AAATCCACGT	GGAAGACGTG	TGCTGGTGGA	GCCCCGAAAT	CATTTAGCGC	ACCTTCATTC	660
	ATCCGGAGAT	GCCTGTGAG	AAACTCTCGC	GTAGAGCCGC	CT		

1589RP

5	GATCATTCAA	GCATATTTAT	TAATTAGATG	ACATTAAACT	ATTAGACCTT	GGTTTGGGTT	60
	GCTGGACTTA	GGGTTGTGGT	AGTCCGTGGG	TTATATATTT	TTTGTAGACA	GTCACCAACA	120
	CACTTGATGT	ATTTCTTTGA	GCTGTGTGCG	ATAGGCTCGC	ATTGGATGCG	GCACTGCTCA	180
	TTGGCATCCT	GCCCCTCAGC	AATAACCATA	GCGGCGCCCC	CTAGAAGACC	GAAGAAAGTAG	240
	GTTAGCTTCA	TCCTGTGATA	TTATTCTGTG	TTTAATTAAA	TGGAACTTTA	GTGCTCTGGT	300
	TCTCTGCCAT	AGAGATCAGG	ACCTTGGTTA	GATATCCGTG	CCCTTATATA	CACTGCTGCC	360
	AAGGATCGAT	GGACTGTAGC	CGAGCACCTT	CCAACTCAAA	AGATCCGACA	TCAATGTATT	420
10	ACTGAGAGCC	AGTATACTTA	CCGCTTATCA	CACTAAACCC	CATAGCCATG	GTTACGAAGA	480
	TGCTGATCTA	TCATCCCACA	CAGCTCGCCA	CTGTAAACGG	ACTTGAGGTG	GGCGACAGAA	540
	GGCCACTACA	GGATGAGCGT	AAATCTCCAA	CAGCTAGCAA	CACATGCCAT	TATTCTATAC	600
	GAACAGTAAC	GTGCTTGATA	TTACAGAATA	CCGATTAGGT	TTTTTCCTGC	CAGACCAAAT	660
	GCTATTGGTC	AAACTCAAAT	TTAGTCAGGC	TTACATTACC	TGCGTACCTC	GAAGGTAGCA	720
15	ATGTTAGGCA	CTCTGGCAGT	A				

1589UP

20	GATCTTCTTG	GCCATTATTG	CAGTAGCGGT	AGGCGGGCAT	ATGAAATGAG	ATCGCGGACG	60
	TCCTGCGCTT	GAGCACCTGA	AAAATGGCAG	TAAAAAGAAA	CGATCCCCGC	AACATTTGTT	120
	CGAGTGACTT	TTGAGGCAGA	AGTACAGGCT	TCAGCCCCGC	GCTGCTTTGC	TGTGGATTCA	180
	GACCACCGGT	GGTGAAGGTG	GTGGTACACT	GGGGTCAGCT	ATGCTCTCAC	GCTGCAGTCC	240
	AGGACAGACA	TACCGCCAC	TATAGCAGGC	CGATCACATA	CATAAGTAAG	AAAATTAGCC	300
	CCAGTAGATT	ATTGTCCGGG	TCATGCAGTG	CTGCACCAAT	GCGTGATGTG	GTGTTGCCGG	360
	GTAGTCTGCC	ACCATCGTGA	TACCCGGAGC	CGCCAGATCC	AACCGGAGGT	ATAAAAACTG	420
25	GTAATGGGAC	AAATCCGGGG	CCGCCCCGGC	CGCCGCTTCC	GCCCCCGTAA	GAAGGCAACC	480
	CCGGCCTTTG	CGCTCCTCCA	TTCGAGTCTT	TTGGGCTGTT	CGGTGGCGGC	TGTGCTCCGC	540
	CGTTTGGGCC	TTTAGGGCTG	TACGGCGGGC	GCTGTGCCCC	CCGTTCCGGT	CTTTCGGGCT	600
	GTACGGAGGC	GGTGCGCCTT	TCGGATCCTT	CGGGCTGTAC	GGAGGCGGTG	CTCCTTTCCG	660

30 ATCCTTCGGG CTGTATGCCG GAAGAACACC CTTGGG

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1590RP

	GATCATAATG	ATTTGTCTTA	ATTCTTTTCT	TAATTATTCA	TTAAATAATT	AATTAATATT	60
	TTATTAATAA	AAAATATTKA	KAKKKATGTT	CGTTTATGAT	AAATTCTAAA	ACTTTGSARC	120
5	ACGAACTGAA	GACAACTATG	TAACGCCCTGT	AATTAATTAT	AAATTATTAT	AATTAATATAT	180
	TCAAAAATG	GTAAGATTTA	TCGAGGATTA	TCGAATTAAA	TAACATGTTC	CACTGCTTAA	240
	GTCGTGAACC	GTCTATTGTT	TTGATTTTTA	TTATTGCTAA	CGTAGTCATC	AGGCGGAATA	300
	CTTTAATTTT	CATTTAATTT	ATTCTTTAAT	TAATAAAAAA	TAAATAGGTA	TTCAATTGTTT	360
	ACTGCTAAAA	CTACTCGGGT	ATCGAATCCG	ATTGCTACT	TTAGCCTTCG	TTCCCTCAATG	420
	TCAATTAATA	TATAATTTAA	ATTTTCACCT	TATAAGTCCT	ATTCATATAA	TTATTATTTT	480
10	ATCTTTACTT	GAATAATTCT	TAAATTATTT	TTATTAAATC	TAATTATTAT	TTTAAATAAT	540
	CATTCTACGA	ACCCTTTAAG	CCATTACGAT	TAACGCTAAC	CCCCTTTGTC	TTACCGCAGC	600
	TGCTGGCACA	AATTTTGGTT	GGGATTTATTT	AATTATATAT			

1590UP

	GATCTATTAT	TAGAGGTAAT	ACATTTAAAC	TATTATCTAA	ATTCTTCTTC	TTCTTATTTA	60
	TTCTTAACTT	TATCTTATTA	GGTAAATTAG	GTGAATGTCA	TGTTGAAGTA	CCATTTATTT	120
	TAATAGGTCA	AATTTGTACA	TTTATTTAT	TTGCTTATTT	CTTAATCTTA	GTACCTATTA	180
	TTTCTATAAT	TGAAAAATATT	TTATTTTAT	TACTAAATAA	AAAATAATAA	TTAAATAAAT	240
20	AATAATAATA	TTCAATTAAAT	ACTTTAATAT	TAATATTTAT	ATATTATACT	TCITTTATCAT	300
	TTATGAGGGT	ACCTCATATT	GCTGACTAGC	AATAGGGGGG	TGAACCCCTAC	GCACCTAAAT	360
	GATAAGAGTT	TATCATTAATA	TTATATACTA	TATATTATAA	GTAAATTATC	AAACCATATA	420
	TAAGGTATAT	ATATTAAGAA	AGTTTGACTG	AGTGGTTTAA	AGTGTAATAT	TTGAGCTATT	480
	ATAAATCTTT	ATGATTTTCAT	AGGTTTCAAT	CCTATAACTT	TCGTATTAAA	TAATTATTTA	540
	AAATAATTAA	AAATAGTTAA	TAATAATGAG	AACATGATGT	TGGTTTCAAT	TAAGCGCTAA	600
25	CTAAGGACAT	TACACATGCG	AATCAAACGT	TAATATTAT	AATTAATAGT	ATTAATAAGT	660
	GGTGTACTCG	TGAGTAAAAA	TTAAGAATAA	TGAACCTAAA	TTTAACTAAA	TAT	

1591RP

30	GATCATAAGC	ATCTTTAGCT	CCACTATCCA	TGTCTGAAAT	TTGCAGCTGA	TAATAAAGTG	60
	GTTGTGTGGC	CGAGCGGTCT	AAGGCGCCTG	ATTCAAGTGT	ATGCTTACAG	CTGTTACAGT	120
	TGGACACTCA	GGTATCGTAA	GATGCAGGAG	TTTCAATCTC	CTCGCAACCA	ATTATTTTTT	180
	TTTTTTGGAG	TTCCAATGCA	ATATCAATTC	TACTGCTGCG	AAAAGGTCTC	GTCAGCAGAT	240
	AAAAGAATAT	AGAATATGTA	TATTTATATA	CAAGAAGCGT	TAACTGACTT	TTTATTTGTTA	300
	TAATGCCATT	CGAAGAGATA	TCGCTTATTA	ACAGCAATAC	CCCCCTGCAG	GTCCCCGCCA	360
35	ACCGTTGTCC	AGTGATGCAA	AATATATACC	TCGCATGATA	AAGAAGGCC	TTCATATCAA	420
	ATGGCCGAGG	TCTCAATATC	ACCGTTCCCG	CGGCCTTCAA	CCAAGTAGCC	ATCTTTATAT	480
	CTGACATATT	CCACGGCATT	CTCACTATGC	TCATCACCGC	CGCAAAACCA	ATGCTTCTTC	540
	TCTTGCCGGT	TGTAAACCTT	CACGTGTACCT	TCCTGGTTAG	CGACAACCTAT	CTTATTTCAAG	600
	TCAAAC TGCA	AACATGTCAC	CGGGTGTTC	TACGAAAATG	TATCAGCCAA	TGTACCGGTA	660
40	CGTAGATCCC	AGATCTAATG	CTGTTATCCA	AGGAACCACT	CACAAGGTTT	AGAGAATCAA	720

1591UP

45	GATCCCCAAT	GATCCCTCTC	CGGGCTACAA	CATCGAGCAG	CTCGCTAAAC	AGTGCAAGAA	60
	CAAGGACAGG	CTGGTGGAAC	TGCCCTTATAC	TGTGAAGGGG	ATGGACCTCT	CCATGAGCGG	120
	TATTTCTCGCC	CACATCGACT	CGCTCGCGAA	GGACCTATTT	CGTCGAAACA	CGAAGAACTA	180
	CAAGCTCTTC	GACCGCGAGA	CCGGCAAGCA	GCTCGTCACT	GTAGAGGACC	TGTGCTACTC	240
	CCTACAGGAG	CACCTGTTTG	CCATGCTCGT	GGAGATTACC	GAGCGTGCCA	TGGCACATGT	300
	GAACCTCTAAC	CAGGTGTTGA	TTGTCCGGCG	TGTGGGCTGC	AATGTCCGAC	TGCAGCAGAT	360
	GATGGCGAGT	ATGTGCCAGA	GCAGGGCCGA	CGGCCAAGTT	CATGCGACGG	ACGAGCGCTT	420
50	CTGTATTGAC	AACGGTGTCA	TGATTGCACA	GGCTGGTCTA	CTTCAATATC	GCATGGGCGA	480
	TATAGTAAAA	GACTTCTCAG	AGACCGTTGT	CACGCAGAGG	TTCCGGACTG	ATGAGGTTTA	540
	CGTATCGTGG	CGCGACTAAG	TGTGTACCAA	GTTTAATAGA	AGTTTACC	CCCTAATATA	600
	GCTGTTAACC	ATCAGTGCCC	TCCGATCAGC	TGGTCCAGAA	CAGTAGTCGC	CGGTGGCTGT	660
	CACCAGCCTA	CGGGCCGAGC	GCCAGGTATC	CTGTTCCG			

1592RP

	GATCAGGAAC	TCGCAGACCT	TGGCTCTCTG	GTCGCCCTGC	AACTGGATGA	TCTCGCCCAT	60
	CTCGTCGTCC	TTGACCATGT	TGCCGTTGCA	GCCAAAGTCC	TTCCGCAAGA	CCTTCCAAGA	120
5	TGCGCTTGAG	GTCGTACTCC	TCGGGGATGC	CCTGCACGGT	GGTCAACGTT	TTTCTGCCGT	180
	TTCTCTGCTG	GATACGGATG	TGGATGTAGT	TGGAGGAGGA	GGCTTCGTCTG	TCGCCGGTGT	240
	CAGCAAAGGG	GTCGAACGAC	TTGAGGTTTT	CGATAGACAT	GGTGGCGGTG	GGGTGTGAGG	300
	TACAAGGTAA	GCAGAGAAAA	TTTTCAGCTG	TCCTTTTAAA	AGCGCGCACC	TCGCGTCTTG	360
	GAACGCATTG	GCTTATTTGT	GAACCATATT	CTTATCTGTA	TAGGTGTTAA	CCCGCATTTT	420
	TCTGCAATTG	CCCGTCTTTC	TTTGGCGTTG	GGACAACGCT	TCCTTTCAAA	CACACTTTCC	480
10	AGGAACTCCT	TTGTTTCCCT	GGGTAACACT	GTTCTTCTTC	GCTGTTTATC	TCCTGTTAGT	540
	AAGGCAGAGG	CTGGGATTAC	AATGAGACTC	GTCACACATA	CTTCACCTAG	CAGAACACTG	600
	CAAATCGCCT	GGATTGCTTG	AGCTGTTTCT	TCAATACYTG	ACATTTGAGT	TGTGGGGAGC	660
	GAGGAAAGA						

1592UP

	GATCCACTTG	TTAACGTCGG	CGCCGCCAAT	CCTCATCCCT	CCATATGTAA	CCACAAGTGG	60
	TTTGATATCCC	AACAATTGCA	GCTCAATTGC	CATCAAGTAC	GCGTATCCCC	CGCCTAGAGA	120
	ATGGCCAGTT	ATAATTACCT	CATAGTCTGG	ATGAGCATCA	TGTACTGGCT	TAAACGCGGA	180
20	ATAGATATCG	TTGTACGCCA	ACTTAAATTG	CTCATATACG	CCCAGTGTGA	CAAAGCAATC	240
	TCCCGTACAC	TTTCCAGCGC	CACTAAGTGG	CTGGTATGGA	ACCCAGGAA	AAATGAAATC	300
	CACAATCCAA	TCTTGAATTG	TTACCGACCC	TCTAAATATG	ATCGAAATCT	GCTTAGCCGT	360
	GTCATTTTATT	GCTATCATGC	TATAACAGGA	AAACTGCCCG	CGGGTCATGT	CCGGATCAAA	420
	AACTTTAACT	ACTTGAGTCC	CTGTTGTTCC	ATGTACCACT	TACCGTCATG	AAAAGGGTCA	480
	GTGAGTATTA	AAGTATTCAC	GCAGTAAACG	CTGTTAGTGA	GATATGACAC	ATATTTCAAT	540
25	GTATCAAACA	TCTCATCAGA	GAAAGAATGG	ACATGAAGGA	AAAAAGGC		

1593RP

	GATCGAAATA	GACAACTCTG	CAACGGTGTC	CAAATGGCCC	AGCAACTTCC	AGGAATAAAC	60
30	ACAAGTAGAC	CATAGCATCC	AAGTACCTAT	GCTCCTCGCC	TTACTATGTC	TTTGGAATGC	120
	AAAGGACCAA	ACGTGCTGCA	AGACGGAGGG	AGAATTCTTC	AGAAGAATTA	CATTATACAG	180
	GCTCGAAGGT	GTGACAGCGA	ACCTATCATG	GTCCTCCTTT	GTCGGTTCTG	CCAAAAGAGA	240
	AGACCAGACC	TCITTCAAGGG	TGACTGCAAT	TCGTTGTCTA	AGGTGCGCCAG	TGACACGAAC	300
	AACCGCTTTT	CTGGGCAAGT	CAGCGAGTTT	TATCGTACTA	GTAACCCGGT	TATTTCCAC	360
	TAGGAGCAAT	GCATTCAAA	AAGCAGCCCA	CAGTTCCCAA	TCAAATTCC	TGGCATTCCC	420
35	ATCTGGAGGA	ACATTATATT	GGATTAAACAG	ACTTTGTATC	ATTTCCAATA	TAGTAACGCA	480
	TGTCCTCAAA	AATAGGGCAT	GTAGTGAAAT	CCACTTACGG	GAGGGCATGT	ATCCATCTTT	540
	GGTCAATATT	GTTACAGTAT	TAACGGCACT	TATAATATCT	TCCTTGGTAA	ACCGCGTAAT	600
	GTTAAATACA	GATGTTAAAA	TAGGATCATT	GGCGCAATCT	TCCACAACCT	GTATAAATGA	660
	GCTGCCATGT	CCATATATTT	CTTCTACAA	TTTGGGCTAA	AGTTGCCAAT	ATAGTACC	

1593UP

	GATCGATCTG	TTGTAATTTG	GACACGGGGA	GCTGCAAGCA	GGGTAACGTA	TGAGGCGTGC	60
	TGTGGGGCCT	GGCGATGGCT	ATAGATAGGG	TCATACCACA	TCATCGGTTT	GGCGGGGTGG	120
45	TATAGCATTT	GGAGGACAGG	TTAGCCCGGA	GCCACAGCAT	AGACAGGTTT	ACGAGGCTTG	180
	CAGCAGAGGA	AAAGATGGGC	AAGCGATTTG	ACTGGCAGCC	GACGGGGAGG	CTCGTGCGCG	240
	GCCGGATTAT	CCGGGCGTTT	TTGCCCTTGA	AGCGGCACCC	GCAGCAGCTG	CTGGACAACC	300
	CGAACTACAC	GAACCTGTAC	CCGGGGGATG	AGGTGTACAG	CTTTGAGGAG	ACGGCGGACG	360
	GGCGATGGTG	TCGCGTGTAC	CAGGTGGTCC	AACCGCTGCC	GGAGGACTTT	ATCTCGACCA	420
	TGAAGCGGTT	CTCGGACAAG	CTGCCGGAGG	AGCAGCACCG	CGTGGTGGTG	TGCCCCAAGG	480
50	CGTTTGTGCA	CTGGTATGAC	GACGAAGTGG	TGACCTTTCC	GTTCTTGGAC	CTGCCCGACG	540
	AGCGGGAGGT	GAAGCGGGAG	GTGGCGGAGA	CGGACGTGCC	GAGCCTGCAC	GACCTGTCTG	600
	ATAGGGACGA	CTTGGGGGAC	CTGGAGCTAT	TCCGGCAGCT	GCGGCGGACG	CG	

1594RP

	GATCAAGACT	GCCGAAGTGC	TAGTTTCCGTG	CTTCATGAGG	TTTGGAAATCT	TGTCCACGAT	60
	GCGGGCGGTT	ACCAGGCGGT	TACGCAACTC	AAAGTCGTCA	TTAAAGTCGC	GAGCAAACCA	120
5	GTAGGAGGAT	TCTAGAAGAC	TGGTAAGCCG	GATGGCGTTT	TTGAAGGGTA	TTGCGTTTGC	180
	GAAGTTCTCA	TCCGCAAAGA	GCTCGCTAAG	CGACTCTATC	ATAAGCAGCT	GCAGGACACA	240
	TTTTACCACG	ATGGTATTCT	TAATACTTAC	ACGGTGCCCA	ATCTCCTCGC	TGCTTTTCGT	300
	GCGCACGAGT	CGGCTCATAG	GCTTATCCTC	TTCAGTACTG	GCGTTGCCAA	CATCCTCGCC	360
	CTTCTCCTCG	CGTTGGGCAC	GCTCGACTTC	CCGATCAACA	TCACTGGCAC	ATGATTGGGT	420
	TTCAGCAGTA	CCGTTGGTGT	TGATTGTGGC	TACTGATGGC	TTTCTTCCAC	GCTTCAATGG	480
10	ATCTGACTCA	AAAAGTTCTG	TGGCAGTGGT	AAGCTCAAAT	AACCGGGCAA	ACGAGTTGGT	540
	AACCTGCTCC	CAATGCGTTG	TCCCGAACTT	GTTGGTGTTC	TGGATAATCA	ATTGCTGCAG	600
	ACAAGACCTA	CCAATCCTGG	CAATGGTGTG	ATTTTCTCTGA	CAGATGCAAG	AGACTAACAA	660
	AACCAGGAAG	CCATCCAACA	TTTCGTTTCAG	TGAATCAAAG	TAATGCGTAA	CAGGGC	

1594UP

	GATCTGAATT	TAAACGTGAG	ATACCCGTTT	TTCTGACAGA	GATATATTTC	CCTATATCTC	60
	ACATGAAATC	TTCTACTCCA	CATCAGAAGA	GGTATTTTTT	GAGTGTATATC	CAACGACTAT	120
	GCAATGACCC	GAGAACCTTA	ATTGAATTCT	ACCTAAATTA	TGACTGCGAC	AGTAGTATGC	180
20	CTAATATTGT	CGAGACTGTT	GTGGATTATT	TGACGCGACT	GGCGCTAACA	CGTGTCGATA	240
	TCACCGCATC	ACAGCGTGCG	TACTATGATG	AACAAGTGAA	CAAACCCCTT	GCAACGTWTA	300
	ACCTATCGCA	GTTGCCCTTA	TTATCCATAT	CTAATGTTAG	CAGTATGTCT	GTTGCTCCAC	360
	AGCAACTCCA	ATTCCCGGTG	GAATTTGCGC	TTAAATGTAC	CTCGTTGAAA	TGTATGTTGG	420
	CCGTGCTAAG	ATCACTAAAT	TCTTGGGCGG	ACAAGGCGAC	GGCTCCAAAT	GGCACATTAA	480
	ACCACAATAG	GGCATCTGTT	GGCTCCAGTA	CGATTGAAAG	GAAGCACTCT	TGGGCTTTTA	540
25	GCTCTTTTCAG	TCACACTATG	AACACAACAC	CTGTAGGAGA	CCAGAATAGT	GTCCAACAAT	600
	CGGAAGCGAG	TGAGGATATT	GATGATCCCA	CACAGTTTGA	AAATTTGAAG	TTAAGGAAAA	660
	CAGAACTGCA	AAAATGTATT	CGGTTATTCA	ACTTC			

1595RP

	GATCTTGCTG	CTATCCAGAA	ATGGGAAGTT	CTTAGACAAC	GGGGAATTAA	GCCCCTTTTC	60
	CAATATTTTG	AGCGTCGTTT	CATAGCTCGG	AAGACGCAGC	AGAAGCCCCC	CCAGTAGTGT	120
	CTGTTTATGT	TCGCTCATGA	AAGGTGTCTC	TATCAAATCT	AGCTCCATCA	TCGCAGAGTA	180
	GTTATTATCT	TTCTTCCAAG	ACAGACGCAC	ATGCCGCAAC	TTGCTCAGGA	TTACAGTAAA	240
	ATAATGGTAG	AACCGCGGAC	TCACAGAACG	GACGACCGCT	CGAAATGAAG	TCGGCCCGTA	300
35	GAGACTCGTG	CGGCCCTGCT	TCTCTATCAC	AAGATGGAAC	TGCGAAAGTC	TGTTACCGGG	360
	GGACACCGTG	CCCATAACGT	GCTTCTGCAT	GAACAGCTGC	GGTACCATCT	CGCTCTTCAT	420
	CCGCGCGAGC	TCAGTCTCAA	GCTCGTCGAT	CCGTGCGCAG	AGCTCCACAT	TGGGCGTCCA	480
	GCTGAACAGC	TCCCGTGAGT	TCACGTGCTG	CGTAAACTCA	GACAGGTACA	CACACTCGGG	540
	CAGGCCCTTC	CAATACATGT	AGAGCACTTC	GGCCGCGCCT	TGTTGCACTT	GACGCGCCGC	600
	TTGCGGCAGA	ACACGCACGA	CTTGCTGACC	TTCCGCGCTG	TTTTTCACAAT	CTTGCCATCG	660
40	GACTCTGCCA	TCCCGCCAGC	TTCAAGCAAA	ATGAGTAGGC	TATATTATT		

1595UP

	GATCGCGGAC	GTGGAGCACT	GGCCGGAGAT	GCGCGCGGCC	ATCCTGGTGG	TTTCTGCGGA	60
45	CCGCAAGGGA	CACGCCATCG	ACGAGCGGTA	TGCAGCAGAC	GGTGCACACG	TCGGACCTCT	120
	TCAAGGAGCG	CGTCGCGACG	GTGGTGCCGC	GGCGGTACGG	AGAGATGGCG	GCGGCGATCC	180
	GCGCGCGCGA	CTTCGCGACG	TTTGCGCGCC	TGACGATGCA	GGACTCGAAC	TCGTTTTCAG	240
	CCACCTGCCT	GGACTCATTT	CCGCCGATCT	TCTACATGAA	CGACACTTCG	CGCCGGATTG	300
	TCAAGCTGTG	TCATCTGATC	AACGAGTTCT	ACAACGAGAC	CATCGTGGCG	TACACGTTTG	360
	ACGCGGGTCC	GAACGCGGTG	CTCTATTACT	TGGCGGAGAA	CGAGGCGCGG	CTCTGCGGCT	420
50	TCCTCTCTGC	GCTCTTTGGC	GCCAACGACG	GCTGGGAGAC	CACGTTCTCG	ACGGAGCAGC	480
	GCGCCACCTT	CGCCGCGCAG	TTGACGAGT	GCGTGCGCGG	CAAGCTTGCG	ACGGACCTGG	540
	ACGACGAATT	GCACAGAAGA	ATTGCCCGCC	TCATCTTCAC	GAAGGTGCGG	CCAGGGCCCA	600
	GGACACTAAA	TCCTCGCTCA	TCGACCCGAG	ACGGGCTGCG	CCCCTGACG	CTATTCTCCT	660
	GCTATTTTCT	GCTCTGTATA	CCCTGCCAGA	CGCGCTATAT	ATATAGAATA	TGCATTGCGA	720
55	CGCTTACGCT	T					

1596RP

	GATCGACAAT	CTGAGCGAAA	TATTTAGCAC	GACATGCTAC	ATGGGCTCTA	CGGTGATAGT	60
	ATGGGAGTGG	AGCAACCGGC	TGTCCATACT	GGAGGCCAGG	CGCCAGGCGC	AGAGCATTCT	120
5	GGGGCGGCCG	GTGTATGAGG	ACGAGGAGCA	GGGGTACAAC	TTTGC GCGAT	ATGCGCTGAA	180
	GATTTCAGACC	GCATTGACCA	GCAAGTCAGA	TGAAGGCGAC	ACACATCAG	CGACTACCTT	240
	TGCTGCACCG	AGATCTGCGC	GCTTCCAAGG	GAAAGGCGGG	CCCCAATCCC	CAGTCTATGT	300
	TCAAGAGGGC	GAACAGCAGG	CCGTCA TGCG	ATTCAATAAG	CGAATGGGCA	CTCGAGCGTT	360
	GGCACATCAT	GTGCTGGATA	GCATCATATA	CTACACAGAC	AAGGTGGTGG	TGAAGGGGCT	420
	TGGAAATTTG	TCCGCGAGCT	TACCTTCCAA	GACCTCCTCG	GCGACAAGCG	TCAGGGGTCG	480
10	TGTAAGGAAA	CGCATTTGGTC	TCGAAGGCGC	AAATGATGTC	TTTGTATACC	GCACAAAAGA	540
	CCTGGTATTTC	GATAGTGATG	AAGATATACC	CAGAACCTAA	CTACTTGTGT	CGATATTTCT	600
	CACACCGCCT	GGTGCGGAAC	CGGGGGCATA	CATTCTGTTT	ACACAAGAGG	GGTTGATGCA	660
	TAAAACGCGC	TT					

1596UP

	GATCTTCGTA	TCCATGTGCG	AAAGCTCCTC	CAAAATCTTT	TCGTCTCCAT	CATGAGAGGC	60
	TGCTACAGCT	TTTGAGCCGA	TAGAATTGGA	AATACCATTG	GAGATTGCTA	TTAGTAGGAA	120
	GACAAATATA	GTACCATCTG	TCGATGGGGC	AGAGGCTTTA	TCAAGAAGGT	CCATCAGCTT	180
20	GTTCTTGGAT	ACAGCAGTCT	CATTTAATAA	TAATGCCCTG	TCACCACTGG	GCAAAAATTC	240
	AGAAACATTG	AGCAGTTTCA	AGAGTGAGTT	CGACTCAAAG	TTTTCGGTCA	TTGTCTCTAA	300
	CAAGACAAAA	ACAACGTCCT	TCCTGCTCTC	ATGAACATCA	TAAGCCTTGA	AAACCTCGAG	360
	CAAAATAGTA	TTGTCCTGGA	TCACGTTCAA	AAATACCTCT	AGAATTAATG	CCTTCCTCCA	420
	CAATAAAGTG	TCAGATTTAG	GAGACAGAGT	GTGGATTAAAT	AATGATAAAA	TAACCTCCAA	480
	TTCCAATTCC	AGCAATGTCA	AATACTGAAC	CTTTATGAGA	ATGTAATACA	TCTGGCGCTA	540
25	CGAACCACAA	TTGCAAAATT	TTTGGATGAG	GAAATGTACC	TCAATAGCAG	CGGCACCGCC	600
	TTTGTTCGCA	ACAGAAAATA	CAGATCTCGG	TGTGTCAAAA	ATAATAATTC	ATAGTTCAAT	660
	AAAACCAGTT	CTAGGAGCTC	TAATCCATAC	TCCTCATTTA	TGCAATTGCT	ATCCAGCAAT	720
	GT						

1597RP

	GATCCATCAG	CGCGGCTACG	GAAATCCTGC	CCATAGAATG	ACTCTCCAAA	CCCCCTCTGAA	60
	CTATCAGCAA	AAGCTCAACA	GCATRCACGG	GTGCGATGCC	CAGCAAAAAC	AGATCCAGCG	120
	TCAGATAAGC	GCTGCCARCG	CACCTCGATGA	CGGGAATACC	ATCACCGCAA	TGGTCCAGCA	180
	TTTGATGCCC	AAGAAGAAAG	ACCAGCCACC	CGCAGCAACG	GGACCCCTATG	GCTCTCCGCC	240
35	AAACTCTGGC	AACAGCTCCA	CGTACGGCGG	CAGCCCTGCT	GCCACCGCGC	CGTCTGCATC	300
	CGTAAATGCT	CCCGCCGCGG	ATGACGGCCA	AAACGCTGTG	CCACAGCCGC	ACAGCGCCCC	360
	TGCGCTATCC	GCTAACGGTA	ACACAGCCCC	TATGTGCGGA	AACTCGGTTA	GCCTTAGTAA	420
	TGGCTCATCA	GCAGGGCCCG	GTTTGTACCA	ACAGTCAAAC	TCTCTGGACT	GGAAGCAGAC	480
	ACCGCCAAGC	AGTGCGGGAA	GCGTAACCGA	AAGAAAGCCA	AAGCTCGCTC	TATTCGCTAA	540
	GAAAAAATAA	TATCATGCGA	CCTATCATTT	ACACATATTC	TAACGTTCOA	CCTGTGTTAG	600
40	TGTACTCATT	TAATTAATTC	ATTAGTGCTG	CCACTGCTGC	AGACATGTGG	CAAGAGGCAA	660
	AAATGGTTCC	TAGCGGGATC	GAACCGCT				

1597UP

	GATCGAGGCA	GCCGTACCGT	CTTTTGGTAC	GCATGCGCAG	AGTACTGCCG	GATACAGCGC	60
	AACATCTTAC	GCTGACTACA	GTTCTCTGGAC	ACACCACCTT	ACAGCTTTGG	GCCTGCGTTA	120
	TTGGTGCTCG	AAGATATGAT	GTTTCGGAATT	TTTCACTCGC	CGTCCGGCCT	GATGAAACTG	180
	GAAGACAAGA	CCTACAGTCA	TCTAGCCAAC	ATAACGCCCT	GTAGTCGGGC	TCTCGAACCG	240
	AGCGTAGAGC	GTAGGAGATG	CTCCACGCGC	CCCCGGTGGT	ACAGAGAAGA	ACAAGACCGC	300
	CGGCATTCTT	TTTATTTACT	TGATTAACCT	CTTGGCCAGT	CTGGTTTCCA	CTGACAAAGT	360
50	GCCCCACCAGA	TGGATCGCGG	GCGCGGTGAT	CCTGCCCCGG	CGATAGCGGG	CGACCGGAGC	420
	TTGCGTGGGT	TTACCTTGCA	TCTGCACAAG	ATGTTGCTAC	GGCGTAGAAG	CAGCGCGTGG	480
	AGCGCGCAGC	GCGCGCAAAAC	AGGACGTCAG	TCTGACGCGC	TACTTCGCCC	GCGCTGCTGC	540
	GCGGCTGAA	TTGGGCTCCC	GGCAAGTCCT	GATTGCTACG	TTGAGTCATA	GTCTCAGTAA	600
	TTATCGCATG	GTGTTACTGG	CGTTGCACGT	GACCACACTG	TGGCGTCTCT	TTGGCCCAAC	660
55	GATGAACCTG	CCATCAGCTC	TCCGCCAGGA	CGGTCAACAAC	AGGCAGCAGT	AC	

1598RP

	GATCCTCATA	ATCATAGTAC	AATATCATT	CCAATAAATG	GAATAGCACT	AAATAAATTA	60
	GTAATAACAG	TAGCACCTCA	ATGTGACATT	TGTCCATATA	CTAAACAATA	ACCTAAGAAA	120
5	GCTGCTGCTA	TAGTTAAAAT	AAAGATAATA	ACACCAACTG	TTCATACAAT	AACCTAGGT	180
	GATTTATAAG	AACCATAATA	TAAACCTTTA	CCAATATGAA	TATACATACA	AATAAAGAAG	240
	AATGAAGCAC	CATTAAGATG	CATATATCTA	ATTAATCAAC	CTAGTTGTAC	ATCTCTCATA	300
	ATATGTTCTA	CTGATGAGAA	AGCTAATTCA	ATATTAGATG	AATAATGCAT	AGCTAAAAAA	360
	ATACCAGTAA	GAATTTGAAT	AACTAAACAT	AAACCTAATA	AAGAACCCTAA	ATTTTCATCAA	420
	TAATTAATTG	ATGATGGTTG	AGGTGAATCA	ATAACATAAC	TATTAACCTAA	ATTTAAATAT	480
10	AAATTTGATT	TTCTATATGC	CATATATTTT	ATTATTAAAA	TATTATTAAA	TTATTATTTA	540
	ATAAATATTA	GATTATAATA	TAATTCTTTA	TAATAAATTA	TATTATTTAA	TTAATATATT	600
	AATTTATTAT	TTATTATTTA	TTAATATTTA	TATAATCTTT	ATAGGGAATT	GAACCTAATA	660
	AACCATTAAAG	ATTTAAATAT	TTAATTATTT	AATTTATTTA	ATTATTTAAT	TTATAAATTA	720
	TTAATTAGAG	AGATAAGGGT					

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1598UP

	GATCTTATCG	TCTAATGGTT	ACGACATCAT	CTCTTCATGT	TGAAAATATC	GGTTCAATTC	60
	CGATTAAGAT	TATTAATATA	TTTTAATAAT	TATTATAAAT	AACAATATTA	ATTAGAGGGG	120
20	TACCAACATA	TTGCTAACTA	GCAATAGGGG	TGTGTACCTT	ATCTCTCTAA	TTAATAATTT	180
	ATAAATTAAA	TAATTAATAA	AATTAATAAT	TAAAATAAAT	AAATCTTAAT	GGTTTATTAG	240
	GTTCAATTCC	TATAAGAGAT	ATATAAATAT	TAATAAATAA	TAAATAATAA	ATTAATATAT	300
	TAATTAATAA	ATATAATTTA	TTATAAAGAA	TTATATTATA	ATCTAATATT	TATTAAATAA	360
	TAATTTAATA	ATATTTTAAT	AATAAAATAT	ATGGCATATA	GAAAATCAAA	TTTATATTTA	420
	AATTTAGTTA	ATAGTTATGT	TATTGATTCA	CCTCAACCAT	CATCAATTAA	TTATTGATGA	480
25	AATTTAGGTT	CTTTATTAGG	TTTATGTTTA	GTTATTCAAA	TTCTTACTGG	TATTTTTTTA	540
	GCTATGCATT	ATTCATCTAA	TATTGAATTA	GCTTTCTCAT	CAGTAGAACA	TATTATGAGA	600
	GATGTTCAAC	TAGGTTGATT	AATTAGATAT	ATGCATCTTA	ATGGTGCTTC	ATTCTTCTTT	660
	ATTTGTATGT	ATATTCATAT	TGGGTAAA				

1600RP

	GATCTAAAAG	AATCCATGTA	TGTACACATA	TTACGGAGGG	TTAAGGTGAC	GAACGGTAGC	60
	TACAGGCCTA	TAAATCTGGG	TTCCCTTGCA	AAAGTTTCATG	CAACTCATCT	GGGACGTTGC	120
	GCCAGTCTTC	GGCAATCCAT	TTCCCTTATC	TATCCTCATC	GGCCTGTGCT	AGTATATCTA	180
35	CTTCAAGAGA	GCTCCTGGCA	CATGTAAAAT	TGCCAGCGGG	AGAGAGGAGA	GGCGAAGATT	240
	CTTGAGTGGG	GTAAGAAACT	TGTTTTGATG	GTATGCTGCT	AGCCATCTTC	TTCCGTCTGT	300
	GTTCCTTACC	GTGTGTTAAT	GATACTCCGA	TATAATGTTT	TATTAACCTC	TCTGCGTATG	360
	GGGCAAGTT	TTTGGGCTTG	TAGTCGCCCA	CATATTTGCA	CCTCCAGTAT	ACAGACCAAT	420
	GTAGTTCAAC	ATATGCCGGG	ATGTTCCCTAT	GTCTACCAAG	GTTAGGCACA	TAAACGTTTT	480
	TCCAATTGGCA	ATTTTTATCT	TCAATCCTTA	TGCCGATGAA	CATCATTTCC	ACTATCCACC	540
40	AGGCAATGAA	CTGAAATATA	CTCTTTGTTC	CATGTCCATC	GTTCTTTGCT	GGCCGGATTA	600
	TACATCTCCG	GAAGGAAGGC	CTGGG				

1600UP

	GATCAAGCAG	CTACTGCTCA	CCTGGAAGAA	GCAGGGCCAC	AAGGCCCTGC	TCTTCACCCA	60
45	GTCCAGGCAG	ATGCTCGACA	TCCTGGAGGC	CTACATCTCG	CACAAAGATC	CCGAGCTGGC	120
	AGGCCTACAG	TACCTCCGGA	TGGACGGAAC	CACAAACATC	GCACACCGGC	AGGCCCTCGT	180
	GGACCGTTTC	AACAACGGCC	CGTACCACCT	CTTTCTTCTG	ACCACCCGCG	TGGGGGGCCT	240
	CGGCGTCAAC	CTCAGGGCGG	CGAACAGAA	CATCATCTTC	GACCCGCACT	GGAACCCCTC	300
	CACGACCTG	CAGGCCCGCG	AGCGCGCCTG	GCGCATAGGC	CAGAAGCGCG	ACGTGACTAT	360
50	CTACCTGCTC	ATGGTCGCGG	GCTCCATCGA	GGAGAAGATA	TACCACCGCC	AGATCTTCAA	420
	GCAGTTTCTC	ACCAACAAGG	TCCTCAGCGA	CCCCAAGCAG	AAGCGCTTCT	TCAAGATGAA	480
	CGAGCTGCAC	GACCTCTTCT	CCTTCGGCCC	GGGCGCGCCG	AGCGACTCCT	TTGCCTCTGA	540
	GATCGAGCAG	CAGACCGCCT	CCCTCCGCGG	CCAGCCCGCC	GCCCAACGGC	CCGACGACTA	600
	CGACTCCGTC	CAGCGTTTCC	AGGGCGTCTC	CAAGCTGGAG	GGCTTCTTCA	ACGCCA	

55

1601RP

	GATCTTTTTTC	CCCCGCAAAC	CGCACACCTC	GTTCCAGGGG	TACTTGGGCA	ACAAAAAGGC	60
	GACGGAGAGC	AAGGTTCTAC	GCGATGTTTT	CAGGAAGGGA	GATGCATGGT	ACCGGTCAGG	120
5	CGATCTCTTG	AAATCCGACA	AGTACGGGCA	ATGGTACTTC	GTGGACCGGA	TGGGTGATAC	180
	GTACCGGTGG	AAATCCGAAA	ATGTCTCGAC	TACCGAGGTG	GAGAATCAGT	TGCTCTCGTT	240
	CAACAAGGAC	CTCTTTGACT	GTTTGCTTGT	AGTGGGCCCTG	AAGATTCCAA	GCTACGAGGG	300
	TAGAGCCGGG	TTTGCTGTTA	TCCAACCTGAA	TCCAGCGCGC	CGCGGACTGG	ACCATGCCAG	360
	TTTGTTAGAC	GACCTTGTCG	AGTATTTGAA	ACATGCTCTT	CCTCGGTACG	CCTTGCCGCT	420
	GTTTCATCAAG	TTTCAAAAAC	AGCTGGAAAC	AACCGATAAC	TATAAGTTCG	CCAAGAAACA	480
10	GTACAAAAAC	CAGCAGTTGC	CTCATGGTGC	GGATGGGGAC	GAGACAATTT	ACTGGTTAAA	540
	AGACTACTCC	CAGTACAAAG	TCTTGACCGA	CGAGGACTGG	GAGCAGATAT	CAACCGGAAA	600
	GGCAAAGCTT	TAGACCAGAC	AATGCCGGGA	TTGACACCGG	TAGGGAGTTC	AAAAATAAAA	660
	AAATACCTGG	GAAGCCATCC	ATAAAAGCCA	TTATCAACTA	TAGAAATAGA	AAAGT	

1601UP

	GATCGCCCTG	TCCCAGGACG	GAGAGCGGGC	GCTGCGCTAG	CATAAAAGCA	CGCAGGTCAC	60
	TGTGCATGAA	ACTCGAATCG	AACGCCGTAC	TCGATGGTAG	AACTAAACGG	GCTCCGCTTC	120
	GAAGTACGCA	CAGTTGAGTG	AAATGTCAGT	GTCGGCGCAA	CGCGCCCAAG	AGCAGAATAG	180
20	CATGGACATC	GAACAGAGGT	CATCGCAGCC	GAGTCGAAGC	AACAGCCATG	CAGGATCGCC	240
	GGGGTACGAA	AAAAGTCAGC	CGCTGTATGC	CGCAGAGAAC	GGTTCCACGG	AGACTGCCCC	300
	GACAGCCACC	GGGCTGTTTG	ATAGCTCGCA	CGTTGTACCG	GTGTTCGCAAC	GGCGCGGACT	360
	GCTGAGTAGG	CTGGCGCTTG	TGCCCCGAATT	CCGGGACGCA	CGTCTCTATC	CCCCGCGGGT	420
	CAAAAAGCTG	ATCCTGGTCA	TCGTGCGCTT	TGCATGTATT	CTGGGTCCCA	TGGGGACCAA	480
	CATCATCTAT	CCTGCGATCG	GGACTATCAT	GCAGGATTTT	GGCACTTCGC	GGTTTCTGGT	540
	CAGTGTGTCT	GTAGGCACCT	ACCTCGCTGC	GCTGGGCATC	TTCCCCATCT	GGTGGTCTGC	600
25	GCTGGCGGAC	AAAAACGGCC	GCCGAACAGT	GTACGTGCTG	TCGTTTCGCG	TGCTGGTGGT	660
	GTTTCAGCCTT	GGGCACGGCT	TCTCGCGCAA	CATCGAGAC			

1602RP

30	GATCCAAGCG	CCCCGACAAC	CAGCGATGTT	TGCAACATAT	TCGGCTAGTA	TTCTCCGTTT	60
	GACTTTACCC	CTGCGTAGCG	TTGGCGTCAG	ACTGCTGAGC	CAGGAAACTC	GGCGGGCCAT	120
	TGAGGGCGCC	ATTTCCCTCT	CCCCAGTGGT	TCTGTTTATG	AAGGGCACCC	CAGAGTTCCC	180
	TCAATGTGGC	TTTTTCGAAGG	CCGCCATTGA	GATCCTGGGC	AGACAGGGCG	TGGATCTCTG	240
	GAAGTTTTCG	GCGTTCAACG	TGCTGGAGGA	TTCTGAGCTG	CGGAGCGGGA	TAAAGGAATA	300
35	TTCCGAGTGG	CCTACAAATC	CACAGCTCTA	CGTCAACAAG	GAATTTGTTG	GGGGGTGCGA	360
	CATCCTCACC	AACATGGCGC	AATCCGGCGA	GCTAACTACT	ATGCTCGAGG	AGGCATCCGT	420
	TCTTGTGCGG	GATACTGAGT	GATGCCGCGT	ACGGCTCCCG	ACTATATTTA	TAGGAATACA	480
	GCTTGTAATT	TACGACTTGT	ATTCTCATGC	CTTTAGACTT	GTAATCATG	GTTGTTTAAT	540
	TCACAAACTC	CGTTCTTTCA	GTGAAAGAAA	GTGAGAACAG	CTTGCTTTTC	GTCATGTGTG	600
	AAAGAGGCTT	CTGATGGAGG	AGGCGTGCAC	ACGCCAGCAG	AGAAAGTCTC	TCAAAAAATG	660
40	ACGTTCTAGT	GGAAGGGCGG	ACGCAATCAC	CCTTGAATGC	GCGA		

1602UP

45	GATCGTGCCC	GGGCTTGTGC	TTGTGCCCCAG	AGTTGTGCTT	GTGCCCAGGC	TTTTGCTCGC	60
	TGCCTCCGTC	GCTGCCCGCG	GGGTAGTACA	CGCCGAACCT	CTTCAGCCGC	AGCGGGCCGC	120
	GGAAGTGCAC	CGTCAGCTCC	TGGTCCAGCG	GAGAGAGACT	GCCCGAGAAC	TCCAATTTTC	180
	TCTGCTTACA	CTTGCAGCTC	TTCTCGTCCA	TGCTGGTGAC	GTCCAGGTAC	GTGCCGCTGT	240
	AGCCACATT	GGCATACCGG	ATATTTTCTG	CCTTCGAGCA	GTAATAATTC	CCTCCGATGA	300
	AATCACAATC	GCCCAGCACC	TGCTGCGCAG	CGAGCAGGCC	ACCTGCAACG	ACTGTCGACA	360
	GCTTCATAAT	TTGTAAACGC	TTGTAAAAGA	ATGACTAGTA	GTTAGAACAG	ATAAAAGAGT	420
50	GCTTTGCTGT	GTGCGCTGTC	GCCCCGTCCAC	GCCTTCCGAG	CTCACCCGCC	TTCTTA	

1603RP

	GATCCGGCAA	GATCGTCGTT	CAGTTGACCG	GCAGATTGAA	CAAGTGCGGT	GTCATCTCTC	60
	CAAGATTCAA	CGTCAAGATC	AACGACGTCG	AGAAGTGGAC	TGCCAACCTA	TTGCCAGCCA	120
5	GACAGTTCCG	CTACGTCATC	TTGACCACCT	CCGCCGGCAT	TATGGACCAC	GAGGAGGCCC	180
	ACAGAAAGCA	CGTTGCTGGT	AAGATTTTGG	GTTTGTGCTA	CTAAGCGGCT	GCTATATAGC	240
	GTATCTAGCT	CTAATGTACG	ATACTCAGTG	TCTATTACGA	CGGCCGCGAG	CTCCACGCGC	300
	CACATACGAG	GCCAGCCGGC	GACGGCAAGC	GGGAATTCAG	ATGCGTTAAT	TAGCAGTAGA	360
	TTAGTAGTAT	ATATGTACAA	ACAGCATACA	CATGAACGGC	GTCGCCGATC	ATAATCTTCT	420
	ACCTCTTCTA	CCACCCCTCT	TTCTGGTAGA	GTCGGATGGG	ATAGGAGTGA	CGTCCTCGAT	480
10	ACGGCCGATT	CTCAAGCCGG	ATCTGGCCAA	AGCTCTCAAA	GCAGCCTGAC	CACCTGGACC	540
	TGGGGTCTTG	GTCTTGGTAC	CACCGGTAGC	TCTGATCTTG	ACGTGCACAG	CAGTGATGCC	600
	GACCTCCTTA	CACCTGGCAG	CGACGTCCTG	AGCAGCCAAC	ATGGCAGCGT	ATGGAGAGGA	660
	CTCGTCTCTG	TCGGCCTTGA	ACTTCATACC	ACCGTAACT	CTGGCAATAG	TTCTCTGCCA	720
	GACA						

1603UP

	GATCTATTTG	TGCCGTCCGC	CATTAAGCAA	GCGGCAAGCA	TCGATCCAAA	TCATGAGAGT	60
	ACCCTCGGGC	TTTCACTTTC	CAAGCCTTTA	TCAACAAATC	TGGTACACGA	TACATCCATC	120
20	GCGACAGCAC	ATATACCAGA	ACGGGAAAGC	CGACAAGATG	GCACTAGACT	CTGGTAGGTA	180
	ATCTGAGTTC	GACCATATCC	ACTTCGTAA	TGGTGATAGT	TGATAAAAAG	AAACGATACT	240
	GAAAATTTTA	ATGGTTACCA	ATCTCATCTC	ATCGCCATAC	TGAAAGAAAT	TTGTAGGTCT	300
	CGCAGTGGAA	CAAGGATCAA	GCCCAGGCTA	AGACAATAAT	GGTTGCAGCG	GAGGCAGTAC	360
	AGGAACTACC	CCCAGATGAA	GAAGAACTGG	CCTTGGCTAA	GCTAGTGTTT	GGCGACACAG	420
	CAGACTTCCA	TGAAGCGCTG	CGAAATGCAG	ACCTTAATTA	TGTTTCTTCA	GATGAAGACG	480
25	TATATGGCCA	GGAGTCGTCC	AGTGATGACG	AAGAGGGGAC	TGAAATTGGT	CACCTGAATG	540
	ATGACCAATT	GTTTTTTGTG	GACGAGGGTG	CAGATACCGA	GGGAGGAGCA	GATGGAGAAC	600
	GGAGGCCATG	GAGGTGGACC	AGGTTAGCGA	GGAAAGCGAC	TCCGGAGAGG	AAAGCGGTAG	660
	CAGCGCTGCA	TGGTCAGATT	CGGATGACGA	ACACTTAAAC	GTTACAATAG	GGCAAACCAA	720
	T						

1604RP

	GATCCCTATT	AGAAGAGGTT	ACTGGGGCTC	CAACCTTGGT	CAGCCACACT	CTCTAGCCAC	60
	GAAGACCTCT	GGTAAGTCTG	GTTCCGTCAC	TGTGCGTTTG	ATCCCTGCCC	CACGTGGTTC	120
	CGGTATCGTC	GCCTCTCCAG	CTGTCAAGAA	GCTTCTACAG	CTTGCTGGTG	TCGAGGATGT	180
35	GTACACTTCC	TCCACCGGTT	CTACCCGTAC	CCTAGAGAAC	ACCTTGAAGG	CTGCCTTCGT	240
	TGCCATTGGT	AACACCTACG	GTTTCTTGAC	CCCAGACTTG	TGGCCAGAGA	ACCAGTTGCC	300
	AGCTTCTCCT	CTAGACGTCT	ACGCCGACGA	GGCCGTTGCC	CAGAAGAAGA	GATTCTAAGT	360
	AGTGTGTGTA	CATACCAACA	GTTTGTCTCT	TTGCACGTGA	ACCGCCCGCC	TAAGCCTTTA	420
	GGCGCATGGC	ACACAGACTG	CCGTTGGGCA	GGAGATCGGT	TGTCTTCCGA	CGCTGGTACA	480
	GGGCTGCGAT	CGCGCTCTGC	GGCTGGCGGT	GCATATCGGA	GATATGGCGC	CGTGCCCGTA	540
40	CGGCAAAGAA	TCAGCAAGAC	ACTAGCGTCT	GGCATCTTTT	TTCAATGCAT	TATTTAGCTT	600
	TTTTTTTTTT	TTTTTTTTTA	GTATAGACAC	ATATAAGT			

1604UP

	GATCAGAGCA	TCCGATGAGG	TGGCACCGGC	CGCGTCCGCT	GTGTCTTTCT	TCGCGGTATC	60
45	GGCTTCCGAA	ATACTTAGCT	TCTCAATACT	TGGGACTGCC	TTATCTTCAG	AGGAAGCGGT	120
	AGCATCCTCA	CTCTTAGGAG	CGCCCTCTGC	GCTGCTCTTA	GGCTCCTCCT	TTGTTGGCTC	180
	CTCCGCCTTA	GCCTCTTCTT	TCTTCGCGAC	AGGTTTCTTA	GCACCAACTA	GCTTGATACC	240
	GGAGCTGGAA	GCCAACTTGA	GGGTCTTCTT	TGGTTTGGGA	GCAGTCGCAT	TCGGCACAGT	300
	TCCCTTCTCA	AAGTTGTTCA	GCGTCACCGG	AGCGGTGGCT	GACTGGCCCT	GTCCGTAACC	360
50	ATAGCTCTGG	TTCCCTTTAC	GGTTCCCTTG	TGGCTGTGAG	TTGTACTGCT	TGTAGCTCTG	420
	ATACCCACCT	TGCGCATTTG	ATTGCTGGTA	ACCTTGGTAG	CCAGCTTGTG	CTGGGTTGTA	480
	CTGCTGGTAT	CCCTGATAAC	CCTGGTACCC	GCCGCTTGC	TGGTTGTATT	GCGCATAGCC	540
	TTGGTACCCA	CCTGCCTGTT	GGCCATACGC	CTGGTAACCT	CCCTGAGGCA	CATACCCCTG	600
	GTAATTCTGG	AAGTTACTTG	GTTTGTAGTA	TTGGCCGAAA	TTTGCTGCCC	CTGACCTTGA	660
55	TTTTGACCTT	GATCCTTGGC	TTGCGACTGG	CCTTGGTCTG	TGCCTTGCGA		

1605RP

	GATCTTCTCA	AAAGTAGCAT	TTACAATCTG	CGTTAGCGTT	GCTTGTGCAA	TTCCCTGGTT	60
	GGACGAGCTT	AGTGACAGGA	TGAAAATATT	ATAGATTTGT	CTGACGGCCT	TTAATAGTGA	120
5	TGCACCGTGA	CAATTGCAAT	AAGGCTCATC	TGTCAATATA	CAGCTTGCGA	GGGCGCGGAC	180
	TACCTGCAAC	TGCACCTTCC	CATCAGTCGC	TTCTCCATCA	AAACAGTCGG	TTATGGTATC	240
	AACGGCAGCA	TCTATCAGCC	GCATTCTTGG	AGGTGGTGTG	ACACCAGAGT	CTGGCAACGT	300
	CGTGCCCTGG	TGCTTTGATG	CTGCGGAATT	TGGAGGGTTG	ACTAAAACAT	TCTCGTCTAA	360
	CGCCTTAAAG	GCAAACAAC	TTGATAGACA	ATCAAGAGCG	CTAACCTGTA	TTTCTGGAAC	420
	ATTAGTTCTA	CAGCAAGCAC	GTAGTGCCTC	AAAGACCAAC	AGAGAAATCCA	AAAACTTTGG	480
10	ATCGTTTTCA	GATTGCAGGA	GTTGCTCGGT	CAAGTTTTTC	ACAGTTTTCT	CAACCAGTTT	540
	TTCATTTATTA	GGATGTTTGT	GCATGGATTT	TGCTTGTAGT	ATACCTCTTA	ACCTTAGTTT	600
	CACAAGATGC	ACTGCGGATT	TCATCGTCCA	TGGACTACCA	GAGACATTGG	AATATGCCCT	660
	TGTGTGACGC	TTGAGATTAT	CCTGCGAC				

1605UP

	GATCAGAGCA	TCCGATGAGG	TGGCACCGGC	CGCGTCCGCT	GTGTCTTTCT	TCCGGGTATC	60
	GGCTTCCGAA	ATACTTAGCT	TCTCAATACT	TGGGACTGCC	TTATCTTCAG	AGGAAGCGGT	120
	AGCATCCCTCA	CTCTTAGGAG	CGCCCTCTGC	GCTGCTCTTA	GGCTCCTCCT	TTGTTGGCTC	180
20	CTCCGCCCTTA	GCCTCTTCTT	TCTTCCGCGAC	AGGTTTCTTA	GCACCAACTA	GCTTGATACC	240
	GGAGCTGGAA	GCCAACTTGA	GGGTCTTCTT	TGGTTTTTGA	GCAGTCGCAT	TCCGGCACAGT	300
	TCCCTTCTCA	AAGTTGTTCA	GCGTCACCGG	AGCGGTGGCT	GACTGGCCCT	GTCCGTAACC	360
	ATAGCTCTGG	TTCCCCCTAC	GTTTCCCTTG	TGGCTGTGAG	TTGTACTGCT	TGTAGCTCTG	420
	ATACCCACCT	TGCGCATTGT	ATTGCTGGTA	ACCTTGGTAG	CCAGCTTGTG	CTGGGTGTGA	480
	CTGCTGGTAT	CCCTGATAAC	CCTGGTACCC	GCCGGCTTGC	TGGTTGTATT	GCGCATAGCC	540
	TTGGTACCCA	CCTGCCTGTT	GGCCATACCG	CTGGTAACCT	CCCTGAGGCA	CATACCCCTG	600
25	GTAATCTGCG	AAGTTACTTG	GGTTGTAGTA	TTGGCCGAAA	TTTTGCTGCC	CCTGACCTTG	660
	ATTTTGACCT	TGATCCTTGG	CTTGCGACTG	GCCTTGGTCG	TTGCCTTGCG	ATTGAATTTG	720
	ATCTT						

1606RP

	GATCAAGCAT	ATCAAATTTT	CGGCAATCTG	CGGCGTCATT	TTTTTGGACA	ACAGGCGTCT	60
	CCACAGGGTC	CATCTCCATC	AGCGGAGCTA	TACGTTGCGA	CAGTGGCCTC	AGCTTGGTAC	120
	TCTGCGAGAG	AATTGAGAG	CCCTTGGAGC	TGGCTGTATG	GTAACGTGCG	TCCGTCCCGT	180
	AGGTGGTCAA	AGACAGCGAC	TCTGAATACT	CGCATTTCGC	ATCCCGGTTG	CGCCGTACGT	240
35	ATCCGTCGCC	CGTGGACTTG	ATGGCAGTGG	TGTCCGAGCA	CGAAGACAGC	GAAGGTAGTC	300
	TCAGTGGCCG	CGTCCGGCAT	ACGTGCTACT	CGAGCACAGA	CTCGTTGTGT	CCCCTCCCGG	360
	TCAATGTTCT	CGGCTCAGTT	CGCGACAACG	CTCCCGACCA	TGCCTGCCCC	CTCCCTTCT	420
	TTCTGTGGAA	GCGCCCAAAC	ATFAAATCTA	GCTGCTTCTT	CCTGGTACTC	TGTTCCGCTCT	480
	GTTTTCTGCCC	GGCGAGCCCC	TCCGATTCAA	TCTCTGTACA	GCCTTTATGC	CGCACTTGCT	540
	CGTCCTAATT	GGCTGCCACA	CTCCTGCTGC	TGGAACCTAA	GGCGTCTGTA	CCGAACGCTT	600
40	TCGTTGACTT	GACCGTTGGG	GCGTAATCTA	TTATTGGAAC	CTTGTAATAAG	CGGGCTTCTG	660
	TACGCTATTA	GTTAGCCC					

1606UP

	GATCCGCTTG	AGTACTGAGA	TATTAAGTCA	ATACCAGGAT	AAGCTTTCAA	AGCACCGTAA	60
45	TCCTACTGTG	CAATGGTGGG	GACCTACTGA	TTTCTCGCAC	TACGTCCTAG	CGCCTGAAAT	120
	TTTATCATAC	GTGTGCCGAG	ACGAACTGGG	CCTTGCAGAT	ATCGATGAGG	CTTGGACTTA	180
	CATGGAAAGT	ACCACGGAAT	ACGGGTAAAA	TGTGGCGGAC	GAAGAGCCTC	TAGATATTTG	240
	GGAAATTAGAA	TACGAAGAGA	AAAAGCTGCA	ACGGTTAGGA	TTAGGACCCA	AGTACAGCAG	300
50	CATGACTTAC	AGAAAGCATC	CTGCCAGGGC	GTCGGCTGTA	TTAGATACAT	CCAAAAATGG	360
	TTCTAAAGAG	CATAAGCGTA	AAGGAAAGCA	ACACAAATTA	AAAAAAGGAC	AGCAGTCTAC	420
	AAAGATAAGG	GTATCAAAAA	AAAGGCGACG	CGTACAACCA	CACAGCATAT	GCGATTAAAT	480
	ATCTTACAAT	CGTACTAAGT	AATACATAAC	GCGCTTAGGA	AATCTGCTGC	TGCACGGAAA	540
	GTTGCATATG	CGAAAACATG	CTATGCAGTG	GATGATCGCG	TACCACTTTT	TAATCCGATA	600
	AAAGTGGACT	AGCGATAAAT	AGTAATTTCA	ATAGGGAATG	TGAATTTGAA	TTGAGAATTG	660
55	GGATAATGCT	GTGGATTTCT	GTGATTATAA	TACCATAAAT	ATA		

1607RP

	GATCACACGA	CAGTGCCAGT	CGGGGCAGCC	GGTACCCGTT	GGCCGCATCG	TGAAGCTGAC	60
	TCCGAAGAAC	CCCTTCTACA	AAGTCCCCGA	GACGGAAGAC	CTGTGCGACGG	TCATGGGCGAT	120
5	CCTTGGCTCC	GGCGTGCACC	TGTGCGCCAT	TGTGGACTCC	ACCTCTTCAT	CTATCGGTGG	180
	CATTCTGTCTG	CAGCGACGTC	TGATGAAGTA	CCTGTGGGAC	AACGCCCGCC	AGTTTCAGCAA	240
	CCTGGAGGTG	CTGCTCAACT	CGTCGCTGCA	AAAGTTGGGC	ATCGGTGTGC	TGGATCCACA	300
	TACCCCTCCT	ACTTCGCGGC	AGTCGCGTGT	TATTTCCAAT	CTCGACACAG	AGCCGCTGCT	360
	CGTTGCCCCTG	CACAAGATGC	ATACAGAACG	GATATCCTCC	ATCGCAGTGA	TCGACCACCA	420
	GGGCATGCTG	CTCGGGAACA	TCTCTGTGAC	AGACGTCAAG	CAGGTTACGC	GCACCTCGCA	480
10	GTATCCGTTG	CTGCACAACA	CCTGCCGCCA	TTTCATCAGC	GTGATCCTCA	ACAACCGCGG	540
	CCTGGAGATG	GGCAAGGACT	CCTTCCCCAT	CTTCCACGTT	TACCCACCT	CGTCCCTGGC	600
	CCGCACGGTC	GCGAAGCTGG	TC				

1607UP

	GATCGGTGCC	CGCACCTCCG	CCCGATTCTT	CGCCAGCTCG	TTGCAATGT	TCCGTATCGA	60
	CTTCTGCTTC	TCATCCCAT	CCACCTCCGT	CCCGCCGCTG	TCCAAAGCTC	GCTTGGCTGC	120
	GCCGCCACTC	GTACCTGCCT	GCCGTTCTTC	ATCTTCAATA	ACTATCACTT	GCATCCCGTT	180
	AGTAGCTGCA	CGGTGCAGAG	GGCTGTAAAC	CTCCCCCTCAG	CCCTTCAAAA	CGCCCCACCA	240
20	CATACCTTCT	CGTCTGGAA	TCATGATTGC	CCCTGGTAAT	CTTCACGCTA	GCACTAATTT	300
	GGTCACTAAC	TGCGCTCTTG	CGGACTGGAA	TTGGTGGTGC	AGATGGTGAA	GTCTCATGTC	360
	GTCCATTTCT	GCCGATGTTA	AAATATGGGT	TTCCGAAAAA	GCCCTGCTTG	CCCTTGACTG	420
	ATGCTCGACT	CACAGAGGAC	TCACCAGAGC	TTGAACCGCA	GCCAGGAAGC	ATTCTGTGCA	480
	TACCAGAAAG	GGCCACCGC	GAGAATCAGA	ATCGATGTTG	CATAGTCGGG	CAGCAAGAGT	540
	GCTCCAGCGC	TCGGGGTCCG	CAAGCGCAGA	TGCAACAAC	CCGTGCACAG	CATCACAAGC	600
25	GGTATAGCAT	GGCTTCCCCA	ACGATTTCGC	AGGTGCCGGA	CTTCAGCAAG	TATTCCCGAC	660
	CTGGCCGGTT	ACAG					

1608RP

	GATCAAAACC	ATCACCAAGT	TTATTCTATGA	AGTGTCCGAC	GATTTCAAGG	TCATCATAAT	60
	CGACGCAATT	CGTACTTTGT	CGCTAAAGTT	CCCAGATGAG	TGGAAGAATA	TTCTATCCTT	120
	TTTAATTGAC	ACTTTGAAAA	GTGCAGAGGG	TGGGTATACA	TTCAAAAATA	ATATCGTAGA	180
	TGCGCTGTTT	GACCTGATCC	AACATGTACC	TCAGTCAAGG	GAACAGGCTC	TGGAACACTT	240
	GTGTGACTTT	ATTGAGGACT	GCGAGTTCAA	TGAAATCTCA	GTCAAGGATCA	TTTACTTATT	300
	GGGTAAAGG	GGCCCTCGA	CAGAAAAGCC	TTGCTTTTAC	GTAGACACC	ATTACAACAG	360
35	AGTTGTCTTG	GAAAATTCAA	TCATCAGATC	TGCTGCTGTT	AGCGCATGTG	CCAAGTTTTC	420
	CTCTCCGAAG	AAAGATCCGT	CGTTAGCTTA	TTCCATCGAA	AAATTGCTAA	AGGGTATCCA	480
	AACCGATGAG	GATGACGAAG	TGAGAGACAG	GGCAACCAAT	CTAGTAAAGC	TCCTTGAGGA	540
	GAACAAGGAA	AAGCCTGGTG	TTGCCGATGA	ATTTATCCAG	CCAAAGCATA	GTTACGATCT	600
	ACTTGCCCTG	GAAAAGTAAA	TTAACGAAC	ATCTCCACCA	TAATGAAGAT	GGCTTTGCCA	660
40	CACCATTTGA	CGCGTCGAGC	ATTCCAAAGT	TACACAGAAG	AGGAGCTCAA	GGCTATTAA	720
	TTGAAGCAGA	AAC					

1608UP

	GATCTGCGCA	AGGATAAAGG	TGTTTCATCAA	GTCATTGTGA	ATGACGCCGG	CAGCCTGTGG	60
45	CGCCTTAGTG	CCATTTCTGA	TGGTCCATTTC	TCTGACTTCG	TCGGGCCCCG	AGGTGAAGAA	120
	CGAGATCAGA	TCCAGCTTCT	GTCTCATGGT	GGTGATGATC	TTTGGGAAGG	CGGACTGGAC	180
	GCCGATCTTC	TCGCACTCCT	CGACAGCCTC	CTCGGCGCTC	ATGTGCGACA	GTCTCTCCTC	240
	CAGGCACACC	GAGAAGGGTA	TAATTAGATC	GCCAGGGGAG	TACTTGTCGA	TCCACTCCTT	300
	GATCTTCAAG	AGGTGCTTGT	TCTTCTTCT	AATGTAGTCC	CGCTCCGATA	GGTTGATCAG	360
	GTAGATGGAT	GGCTTGGCGG	TTAGCAGGAA	CATCGAGTTG	ATGACCTCCA	CCTCCTTGGT	420
50	GCTCCAGGAC	TGGTTTGCGA	CTCTCTGACC	CGACTTCAAA	AGCTCGATAA	TGCGCTTCAC	480
	CAGCTCGGCC	TCTCTCTTCT	TCTGTCTCAC	CTCCAGGGAC	TGGCCGCTC	TCTTGGTGAT	540
	CTTCTCCACG	GCTTCCAGGT	GCTTCTCCGC	GAACCTCAATG	TCTTCAAAAC	GCAATTCGGT	600
	GTTAATGATG	TCCAGGTTCT	TGACCGGGTC	GACGTCAACC	TCAATGTGGA	TGATCTCGGC	660
55	GTCGTGGAAG	CAACGCACGA	CCTGGTAGAT	CGAGTCCACA	GATCTGATGT	GCGATAAGAA	720
	GGC						

1609RP

	GATCAGACGG	TAATGGCGCG	CATGCTGGCG	CAGGTGGAGC	ACGTATCTAG	CGTCCATCGT	60
	CTCTTGCTGT	GGTGGCGGCG	GCGCGGCAAG	GGCCTCGCTG	CGCGAGAAAT	ACAGTAGGGA	120
5	TCTGTGCGCG	CCGCGCACCA	GGGCACGCGG	GGCCGCGAAC	AGCGCCGTTT	GCCCTTAAT	180
	CGGGACAAAC	GCATATAAGT	AGAGGCTTAG	GCGCTGCTCG	AGGGACGGCA	GAACACACAC	240
	AAGGACCAAT	GAACACGATT	ATCAACTTCC	AGGAAGGCAG	CGCGCAGGCT	CTCAGCGAGC	300
	ACAGCATCTT	CCCAGATGTG	CTGGTGTCCA	CTGCTGAAAA	CGGTCCATCA	GGACACCTTG	360
	TAGTGGAGTA	CCCAGGCGAG	TCTACAGCGG	TGACGCTGGG	GAACGTTATG	CTGTGTGGAGG	420
	CTACGCAGAC	GGTGCCTAAC	CTGATGTTAA	TCACGACCGA	GCCGGGAATC	GTCAGGGAGG	480
10	GGGACCTATT	CACGCTGGCG	ATGACAGACC	CAGATGCTCC	CTCGCGGTCC	GACCACAAGT	540
	GGTCCGAATA	CTGCCACTTT	CTGGAAACGA	ACATAACGCT	GGGCTCGGAT	GACGGGGTGT	600
	CGCACGTGGT	GCTAAAGGGC	ACCCCGCAGG	TGGAGCATAT	GGGCCCTGCG	CCGCCGGGCC	660
	GGCACAGGGG	CTCACCGGTA	CGTGTGGTTG	TT			

1609UP

	GATCGAGAAG	ATTGAGAGAA	GGAAAGCGTC	TTGGTGCTAG	CCTCGTGACC	CCCTCCCGGG	60
	CTGGAACCTGC	GCGATATACT	ACATAAAATA	CGTTATCCCT	GGAATTTGTA	GCATTAAAGG	120
	ACTTATGAGAC	TATTCTGTAT	ACCTGCGCTT	CCCCTGCGCA	CCCGTAGCAA	TGCCAAACTC	180
20	ACTCCGAGGC	CTCGCTGCTG	GCCCAACAAT	CGGACTCAGC	CGGACCCGAG	CCCCGCAGTC	240
	ACGTGACCCG	CCGATTCGCG	CCACATTCAC	TCCGCTTGCC	TCGCTTCCGC	ACCCCGCCAC	300
	GCGACTCCCG	GCCCCGCAGC	CCCACGTGAT	TCTAGTTGCA	TAGGAAACTA	GGCTAAATC	360
	ACGTGACTGA	ATCGCGCGCG	CACATCATAC	CATGGGACAC	GACCCCGACT	ACCCCCCCCC	420
	CCCCGCGCGG	CGCGCTGCAC	AGCAGCCGTA	TACGGGCGCAG	GCGCAGTCCG	GTCGCGCGCC	480
	TCTGAGAGGG	CGCATGGCCG	CCGATGCTGC	ATGGCTGCCT	CGGTGTTGCC	GAAGATGTGG	540
	AGGCACGTAC	GCGGGCAGCT	CAGTTACCCG	AAGTTACCCC	TTCTTCTGAT	TAAATTTGGA	600
25	CTGAAACTTA	AAAGCCGTCA	GCAGTGGCAA	ATCCACGGTG	AGAATAATTA	CAGGAAACAG	660
	CGGTGGACCA	GCTGCGGAAC	TAGACGACGG	GTTGGTGTGG	CACGCATAGA	AGGTATGTTT	720

1610RP

	GATCAATTTT	CTTTCGTATA	GTTGGCGTCC	CAGGCTCCGA	GATAGCCCCA	CATGATAAAT	60
	TGCTATCGCA	CATGATGTCC	TGGTTGTCTAT	TGTTGTCCAA	ATTGCTCAAA	TCAAAAATGA	120
	AACTACCATC	ATCTGGTTTC	ACTTTCAGTA	AACTATCGTT	TTTCTCTGTT	GCAGGGTCTGA	180
	AATCCATATC	ATCCCGTAGA	TATTCTATGT	ACAGCAGAAA	CGGAACCTTC	TCTGCTGAGT	240
35	TCAACACCTG	AGCTTCTGTTA	GCAGCAATAT	TTACAATTCC	ATGCAGCTTG	CCCTTCTTAT	300
	TAGGCGGCAA	CAGTGTAGGG	ATATCTACCT	CAGCTGGCAA	GTCCCTATTTC	ATGATAGAAA	360
	GCTCAGCTCT	CAATGAAGTT	AGGCGAGCTT	CAGTGGGAAC	TTGCGCCAAC	TTCTTGATA	420
	TCGTTTCTAG	AGCAATCACA	AACTGCATCT	CGCAGCGGAA	GTAATTTGCC	TTCAAGATTT	480
	TGATTTTATG	TGTGGCTGAT	AAACTGGAGG	GCTCCAGGTT	ATAGATGTTT	GCTCCATGCC	540
	GAGATGTCTT	CCGTTTGTGG	CTCTTCTTTA	AATCATTTGA	CGGAGACTGC	GTGATGCTAC	600
	CACTTCCATG	CTGCTCCAAAT	GATGCTGAT	CCTTATACGA	GTGGAGTGAC	GTGCTGGATC	660
40	GAGAATTTCAG	ATGCAAAATTA	GGCATAGAGT	TTGTGTATTTC	CTCTAGCTTA	GCACCATCGT	720
	TATCTTTTGGG	C					

1610UP

45	GATCGATCTG	TACAGAGCCG	TTACAACAGG	CACTTGTAATA	AAGCAATATC	GTTACTTTTT	60
	TGCATGTCTAG	TTTTTTCCTC	GAGCCTCGTC	AGCGCGAGGA	ATGAGTAATG	GATACTTTGA	120
	CGACAGAAAA	AGTGAAAACT	TTGAGCGGAC	ATCGCAACCT	GCTCGTTAGT	AGCACCTAAG	180
	CGCAGGTTAG	CACAAATGGCG	CCAAAGGATA	CGGCGGTGTC	GGAGACCTCT	ACGCGGTCTC	240
	GCTATATCAA	AAAGGGCAAG	ACTTTAGAGA	ATGACATTGA	GCTACAGTCG	GTGACGCCAG	300
50	CCACCGGGGA	GTTCCTCGAG	GACCAACCGG	AAGAGGGCGA	CTACCAGGAG	ACGGAGGTCA	360
	AGAGGGCGCT	GAAGGCGCGG	CACATCTCGA	TGATCGCGCT	GGGCGGGACG	ATAGGCACAG	420
	GCCTGTTTCA	TGTGATTGCA	TCCCGCGTGC	GGACAGCGGG	GCCAGTGGGG	TCGCTGTTGG	480
	CGTACATCTT	CATCGGTACG	GTGGTGTACT	CGATCACGCA	GTCGCTGGGG	GAGATGGCGA	540
	CGTTCAATTC	TGTGACTCCT	CGGTGACGGT	ATTTTCAAAG	CGGTTTCTGT	CGCCTGCGTT	600
	TGGCGTGGCA	AACGGGTATA	TGTACTGGTT	CAACTGGGCG	ATCACGTTTG	CTGTGAGCT	660

55

TTCTGTGGTTT GGCCAGATCA TACAGTACTG GACGGACCGC GTGCCAATCG CGGCGTGGAT 720
TGTGATTTT

1611RP

	GATCCATCGT	GGTGTGCTTC	ATTACCTGTA	ATTCCATTGA	TATCCTGGCT	ATGCAGTGCT	60
	GGAAACGCTC	CTCCAGCGCC	TCATATTTGT	TATTCAGCTC	CAAGTACTCC	GCGAGCTTAA	120
5	AGGTCAACGA	GAGCGACCCT	GGATTGCACC	TGACGGCGAT	CTCAAGGACC	TTCTCGTGCT	180
	CGTTCTCGTC	CACAAACATG	GCGTAGTTGT	ACCATATCTC	CGGCGCAAAG	CACATGTGCT	240
	GCACAGCCTG	GCGGTGCACG	TATTCCACGC	GCTGGCGCAG	CACGACTTCG	GGCAGGTCGA	300
	GCTTGTTGTC	CAGCTCCAC	TGGATCCACT	TGCTCCAGAT	CTGCAGCTGG	TACTCATCGT	360
	ACTGACCGGG	CGCAGGCAGG	TTCTGCTGTG	TGCGCTGGTT	TAGCTTCGTG	GGCAGCGAGC	420
	GCCGCGAGCC	CTTCGTCAGG	TTCGACCACT	CCTGGTACAG	CGAGCGCGCA	TTTATGTAGC	480
10	TCGCCGAGAG	CTCTCCGATG	AACCTCCGCG	CCGTCAACTG	GTTGACCTCC	TGCTCCCACT	540
	GCGTGTATTT	CTCCCAGTAC	CGCTCCAGCG	ACTCCACTGG	CAGGCACAGC	AGGCGCTTGT	600
	ACAGCTTGCG	CAGAATCTCG	ACCCGGCTCT	GCTCCTCCCA	CTTGCTCACC	GGCTTCCACT	660
	GCTCCA						

1611UP

	GATCTAAGGG	ATGGGTGACT	GCTGCCGGTG	CTCACAGCAG	TGGCACGTAG	CTAGTAATGG	60
	TGCGAAATCG	ATCAAAGAGG	GTGCGTCTGG	CGGTACAGGC	AGAAAGCACG	CCCGCCGATA	120
	CAAGTTCCAG	TTCTACAAGC	ACCTGCAGTT	CCAGGGTACG	AGGTACCAGG	TGGTGAATTC	180
20	GCGGCCGTAT	CTGATAGAGC	GGTACGGGGA	GCGCAAGGCG	GCGACGATCA	GGTCGTTTGT	240
	CAAGTGCAATC	CATCGGAAAA	TCAACGACGA	TGTGACACGG	ATCAGCGACG	AGCGGGTGAC	300
	GCACGGGGTG	TGCAAGTGCG	AGAAGTCCGA	GCTGTTCTCT	CTGCTGGTGA	CGCTGTCCGA	360
	GCGGGGCGGG	CCGGAGTACT	GGCTGGACAA	GACGAACGGG	TGCCAGAGCC	GCGCGGGCGG	420
	AGACGGCGCG	CGGAAGAGCG	ACCAGGTGGA	GGAGGGCGGG	AGCCGGCGGG	GCCAGAGGCT	480
	CGTCTGCACA	CTGGTGGAGC	AGATCATGCG	CGAGAACATC	ACGGAGGACT	ACGACGAGAG	540
25	CGTGACGAC	GAGAACTACG	TGTTCTCGTC	GATATGGGCG	AAC TTCATGG	AGGGGTTGAT	600
	AAACCACTAC	CTAGAGAAGG	TCT				

1612RP

30	GATCCATGCG	ATAAATCTCC	TAGTGGTGTG	GTTTCACACG	AAGCAGCTTC	CGTCGTTCTC	60
	GTGGTTTTTC	CTGCAGCTCT	GTTTCGAGCTT	GATTTTGGTG	TTTTTGGGGA	CGTGGACCAC	120
	GAGGTGGCGC	GAGCTTCGCG	ACACGTTTTT	TGAGGGTCTC	ATAGATCAGG	AACCTATTAC	180
	GGGTGGGGCT	GAGTCTCCCT	ATCATGGCAG	TTCTCAGAAC	AGACAGCAGT	TTGAGATGAA	240
	GGACTTGGAG	GCACAGAAAT	AGCCTACATT	ATAAATACGC	TTGAGATCAT	TCTAGCGCCA	300
	CGGTGAGACT	GATCATTCGT	AAATAGCATT	TTAATAACGT	AATATATCAT	ACGCTGGTTA	360
35	TTTCGGATGC	AGGACTCCGA	AATAGTCTGA	CAATTATGTA	CTGTAAAGTT	ATTTATTTTC	420
	AGACGGCGTA	TCTCGCTTGA	AACCTGTTCC	AGTGACACAG	AGATCCAGCA	GCTCGAATAC	480
	TGATTTTTTC	GTATTGTTAC	CTGGTCGACA	GATCTCCAAG	CCACCCTCCA	ATCGCTGCCG	540
	CAGCTGCAGC	ATTGCTACCG	TAGACTCCAG	CCTAGTGACA	AGATGATCCA	ACAAGGATAT	600
	CCAATCGTAT	TCCGTGTTCT	GGCTCAGCGC	TTTATCAACC	TTTTTATCAC	GAGTCATATG	660
40	TGTGGGTAGT	TGTAGGACAC	TATTGTGCGT	TTCGATCAGA	CCGCCGTT		

1613UP

	GATCAAATAG	ATGTGCGCTG	CCACATAGGA	CGGAGTCGCG	GCTAAGCTGT	GTGTTTTACC	60
	TGGAGGCAAC	TGTTGGACTC	CTGTGTTCAGC	AATCGCGCCC	CGACCTGCCG	AACAAGCGAC	120
5	TATATAACAA	GCGAGGAAAC	CACCTTGTGA	TACGCACGGG	GACCAACGAC	ACAGCAACGA	180
	CACAGCAACG	ATGGCGGACC	TCGGGGCTCT	TATTGACTTG	ACGCGGATAT	CGGAGACCGG	240
	GTATGAATCG	ACGAACCATC	ATAGGATGAT	ACACGGCGGC	AAGGCGCTCT	ACGGGGGTCT	300
	GCTAGTGGCA	CAGGCGATAC	TGGCGTCTGT	CTACTTTGTC	CCCAGGGACT	TTATTCCGCT	360
	CTCGGTGCAC	TGCCTGTTCA	TGGTCGGCGG	AGACAAATGCT	ATCAAGACGC	AGTACGAGGT	420
	TGAACGGCTG	CGGAAGGGGA	GCAACTTTCG	GCACCTGTTG	GTGCGCGCGT	ACCAGAAGGA	480
10	CAAGGAGCTG	TTCAACAATGC	AGATCATCTA	CCGGCGCGAC	CTCGGCAAGC	AGCCGGACAC	540
	GCTGCACCGC	AAGGACAACC	TGGGCCCTGT	GGACCGGTCC	CACCTGGAGG	ACGCTGGCAC	600
	GCTATGCAGG	CGGGATCTAC	TGTCCAACCG	TGAGAACCTG	CAGGCGGTGA	GCGCGTCTTC	660
	GAGACGGATA	AGGGCCTTAA	TAACATTCTG	GAGGGGTTTC	ACAACACGTC	GTCCGAGTAC	720
	AGGCTGCCTG	GC					

1614RP

	GATCGCGGGC	ATGGACCCGT	GCTTCGACCG	CCTTCTGGCG	CACCGCGCGG	CGTTCCTCGC	60
	CGCGGTGCAG	GAGCAGGTGC	AGCGGGACTA	CGGGGCGATG	GAACAGTTCC	ACAAGTTCCC	120
20	CGACACGATC	CGTGTTCGACA	AGTTGGTCAC	GTATATATGG	CGCGTGTTCG	AGCGCGTCTG	180
	CGTGTACCCG	CCGAACCAGC	AGCGCTGCCA	TCTCGAAGAC	ATCATGCTCT	TGCGTGTGTA	240
	CTGCGGCGAG	GCGCGGGGGC	ACCCGCTCTT	GCTCATGGCG	ATCGTTTCAGG	CGGTGGCGGC	300
	ACGCTACGGG	GTGCAGACGC	TCCTCTGCGA	GCAGGTATTG	ATCATCATTTG	ACCGCAAGTT	360
	GCGCGGCGGA	CAGTCATACT	TGATGATCCC	GCTGCGAGGG	AACGCAAAGC	CGCGCATCTT	420
	CACGCGGCGG	CGCTTGCTCG	ACACTATGCG	GCACACAATA	CCCAACATTG	CCGACCCGCG	480
25	GAGCCTGGCG	CTCGCCCGGT	TCCTCACTCC	GCTCACGAAG	CGCGCGGGTG	CTGAGAAAAT	540
	CTTCAAAGAC	TGGTCCATCT	ACTGCGACAA	ATCCATATGG	CGGACGATCC	CTGATCACTC	600
	GCCCAATGGC	ATTCTGCGCT	ACCTCCCGCA	CTCCTGCACG	CCGATGGACG	AATCCATCTT	660
	TGAGTATTTT	ATCGTCTATT	GGAAAACCGC	AACAGCAAAC	CACCTCCACG	ACAACATTTT	720
	CCACACC						

1614UP

	GATCCTTTTC	ACCAACAGCT	GTCTGGGCCA	GCTGCGGCCT	GGGATGAGCT	ACAACGAGGC	60
	AGTGAAAGCG	CTGACGAACC	TGGCGCTGGA	CAGCTTTACA	CTGCCGGGGA	CGGTGGGGTT	120
35	TCCGCTGAAC	AACGTGTACT	CTGTGCCGGT	AGAGGACGGT	GCTCAGATGG	AGCTGCTGAA	180
	GGGGTACCTG	CAGCAGTTGC	GGCAGGAGCT	GGCCACGCGG	CTGCTGGACC	GTGTGTATGG	240
	GGCGGAGAAG	GCACAGCCCT	CGAAGTTCTG	GCTGGCCTTC	ACAAGGCGCA	AGTTTATGAA	300
	CAAGGCGCTG	TAAGGCGAAA	TAGGTACGTA	GCTGGCGGCG	CCAGGAAGTA	TTTACAAAGT	360
	TGGCTGTATC	GCTACGAGGT	TTTGGTGGCG	TGTGCCCTGT	TGGAGCGCAC	GAGGAGTTCA	420
	ACGGCGGAAG	CTCGGAGCTG	TTCCGCGTCT	TTACGATCG	CGTTCACGTC	AATGCTGAGG	480
	TCGGTGTTTT	TGGCGCGGAA	GCCTTGGATC	CGCGCCTGCA	GGTCTGTCTAG	CGCCTGGAGG	540
40	ACACGCTCAT	AGTCTGCATC	TTCTTTTCAG	CGCTCTTTGT	ATGTTTGGAA	GGACTGAGCG	600
	ATGTCTTCGA	TACCGGGCTC	GACTCTGCTG	ATCATCTCGA	TGCGCTGGCG	CAACAGCTGA	660
	TCGCGGTGCG	TGTTGGCGTT	CGCGTCGCTA	ATCATCTGCT	GGATTTCTGT	ATCGGTCAAG	720

CCCGAT

1615RP

	GATCATTTCAG	CTGGACGTCA	GCCGACTACT	GTTGGACCCC	ATATTTCACGG	TCCCCGAGGT	60
	GCAGAACGAC	ATGGTGGAGA	TTCTGCGCCA	GTATATGCTG	GAGTCGGGGC	GGCCGTACAA	120
5	GCAGGGTTTC	CATGAGCTAT	GCGGCATGTT	CTACATGCCAG	CTTTACCGCA	ACGGCTACCG	180
	GGACGGCATC	CAGCACACCA	CGCTACATAT	GTTCAAGGAG	TTCATCGCAG	AGGTAGCTGT	240
	GACCTTCTAC	GACGAGGGAA	ACCTCATCGA	GTGGACGAAG	AACACGTTTG	AACCGATACT	300
	TCGACACGCG	TTGCCAGGCT	TGTACGAGCA	GCTTCTAATG	CACCATGAGC	TGGACAACCTC	360
	GATATGGCTC	ATCCGCTGGA	GCAGGCTGCT	CTTTCTCCGA	GAGTTCGAGC	TGGAGTACAC	420
	GCTTTGCTTG	TGGGATCACC	TGCTGACATT	TAGATACCCA	GTATCCGAGC	TCGTAGCAGC	480
10	CATTATCGTT	GTCTGTCTGA	CACTCATTTGT	ACAAGAACTG	CATTCTCTGTG	AAGACCACGG	540
	CGACCTGATG	TCTATTCTAC	TGCATACCC	TCCTCGAAGC	TGCTGAGCGC	CCCCAGATGA	600
	TCCGCTCCGC	CCGGACGCTT	CCTGATCTGT	GGCTCGCCGA	ACAATATGAA	GACATGCAAC	660
	TCATCTGCGA	TTACTAATT	AAGTCGCACA	ACGGCGCCTG	GTTT		

1615UP

	GATCTCGTTA	TTCTGGACAA	CATTGCGTAT	AGGGACTGCT	CCTGCTTTGT	GTGAGGAGAC	60
	GTGTGCTGAC	TTTAAATAAG	TACGATGAAA	CGGTCAGCCT	ACGGTGGGGC	CCCGTTTTTC	120
	AGTTTCGCAC	GGAGAGGGTA	TCAAAGGAGG	TCGAACACAG	CTACGTTATT	GGTTCGTATA	180
20	GCATGCTTTT	GAAGCCCCTA	GCTTCACGAG	CGCTCCGACC	ATCCAGCCA	CCGCGCCCCCT	240
	ACGCCCAAAG	CCAGCTCCCG	CAATACGGCA	GCGCCGTGGG	CCCCTTTTCG	TAAGTATATA	300
	TGGCGTGGCC	GCGCCGCGCG	GCCGAGGTG	GCGCGTCCAG	AATGGCTTCT	CGACTTGACA	360
	AGCTCCCGGA	GGCGGTCACT	CGCCTGCAGA	GCCTCAGCCA	TAGACAGCTG	CTCCGTCTGG	420
	CGCAGGGCGT	GTGCATCCCT	GCCCTGTCCC	CGTCCCTGCA	CAAGGGCCAG	AGTGGACGCG	480
	TGTGCGTCTG	GGGGGGGTG	CTGGAGTACA	CCGGCGCGCC	GTAATTTCAGC	GCGCATGCCG	540
	CGGCGCTCAT	GGGCTCGGAC	CTGGTGACG	TGCTGTGCGA	GTGGAACGCT	GCAACGCCGA	600
25	TCAAGGCCCTA	CTCGCCGGAC	CTGATGGTGC	ACCCGCACCT	GCGCGACAGT	AGCTCCCTGG	660
	CGCGCGGGCT	GGAGCCCGCC	ACAGAAGCCG	TGCGCGCGCT	CGTGGA		

1616RP

	GATCTGCTTC	AAGAGCTCCT	TCTGGTAGGA	CGAGCCCAGG	ATGAAAATCT	TGGAGACGGT	60
	GACAGGGTCC	AGGAACGGCT	TGAACAGGCG	GAATGCGGCG	GAGAAGCCGA	ATGGCGCGTT	120
	GATCATGTAG	AACTTGCCCCA	TGCGCTCGGG	GTAGTAGTTC	TGGCCGATGT	TCGAGGCCTC	180
	GCGCACGTAG	CTGAGCACCT	GCGCGGCTGC	GGAGATGGAG	ATGCCCTTGA	GGTCTAGGAT	240
	GGTGCAGGAC	GTCTCGACGA	GGCAGTCGGC	CTGTCTGGAG	CTGGCCGGCA	AGCGGTACCG	300
35	CGAGAAGGAC	TCGTACTCCC	ATATCAAGTT	CTTCAGCATG	CGCTCTGCG	TCGTGATCTT	360
	GTACATCTCC	GTCAAGTTCA	CCGCGCCAG	CTCCTCGATG	TACACCGGCC	TCCCGTCCTT	420
	GTCCGTCTTG	TGGTAGTACT	GCGGGTAGAA	CTTGGCCACC	AACGGCTTTT	CCTCGTAGTG	480
	GAAGTCCTCG	AAGATCGTGT	CCACGCCGTT	TTCTTTACGC	CACTTCTCGC	AGTTCTCAAA	540
	CATTGCCCGC	GCAGCCGCC	ACGTTTGAAC	TTGCGCGCCC	GCAGAAACCG	CAAAAGCGTC	600
	GAGTCGTCCA	GACGCTTGGT	GAATCCGGCC	TGCTTCAGCA	CCTTGCGCAG	CTCCTCCAGC	660
40	GCCGCTCCG	TGCTCCGCTC	CGTCAGG				

1616UP

	GATCACCTTT	TGGCACGAAC	GCCACAGAAA	ATCCATTACG	CGATTCTGCC	CGTTTCATTTT	60
	TGTACGAATG	GGGAAATGAC	TCGTGCGCAT	GGCACAGGTG	ACTATCGCAT	TTCGTTTTCGG	120
	GGGCGTGATG	CCCAGATTTT	CTTGCGAGAA	GCCGCCACCC	TGCGGGATAG	GGCTTTACCT	180
	CACATGAGGC	GCAAAGCGAC	AATAATCGCA	GAGCTGCTTC	TTACTTCATT	CTCTACCCCA	240
	CTAACGTAAT	CGATCGGACA	GGCACAGTCC	TACGGTAATC	CTCTGAGATA	CCAGATTCCG	300
	TTGCATAATG	ATCTCGCCTA	CAGGGCCGTG	TTTGTTTCGAG	CCCATATCTC	ATGCAAGATC	360
	GCGATGCCCG	TGACGATCCA	CCTTCACCAT	TTACTCGTTT	CTTTTTTCATG	TTTTCAAAAA	420
50	GAAACGAAAA	GGTGAGATAA	AAAGCAACAA	TTACTACCGA	CATTTAAAAAT	AGGTGATGTC	480
	CAGGACTGTA	CCTCATTTGT	GGCGCTAACA	GCACCAGCAA	TGCTGTGTG	ACCCCTTGTG	540
	CTGTTTGACT	TTTCAACAGA	CAATCCGAAC	ACACTGCCCC	GGGAATACGA	CCTTGCAAGT	600
	GCCCGAATCT	GTGTGCTGGG	CCACGGGGGC	AGTGGCAAGT	CATCACTCGT	TGCTCCGATG	660
	GCTACACGGA	CTGGAGAGTG	GCCTG				

1617RP

	GATCTTGACA	CCAATCGACT	TCCGGAACGC	CTGAGTCAAG	GCCTCGGTCT	TGGATAGCTC	60
	CAACGAGAAT	ATCTCTGACC	CTGCCATCGC	TGTGAAGGGC	ACATCTGCGC	CCAGTGACTG	120
5	CGACAAGCCC	ATCGCCAGCG	CCGTTTTCGC	GGTCGACGGC	GGACCAGCAA	CCAACACGGC	180
	CCGCCCGGCA	ATCGTACCGT	TCTGCACCAT	TTTGAGAATC	ACGCCTGCGG	CCCTCCGCGC	240
	CTGTAACTGG	CCCACCATTC	CCTGCGAGCT	CGGCTTAGGC	TGTAGGTTCT	CGTCCAGTCC	300
	CAGGCCAACA	ATGTGCGAAT	GTGTGCGAAT	TAGCGACAAG	GACTTCAGAG	ACATGTTCATG	360
	CGCCTCCTGT	GTTTGAATCG	ACATATTATA	GATCTTTGAA	ACTTTGAAAC	CGTCAAGAGA	420
	GTCCAATGGC	CTTTGTTCGAT	GACCGTCTAA	CTGTTCAAAC	GGTTGTGCAA	CATACCAAAT	480
10	TTTGCCCGGAG	CCTGAGGACT	AAAACGCATG	TTATACGAAAG	TCAAGAAGAA	GCATCGTTTG	540
	AGTGCTAGC	AGTTCCCTTGA	CTCTCAACTT	GGTGCAGCG	TGCGGTGTGA	TGCTTCGCAT	600
	GGGAGAGTAC	ATATGTGGTT	GCAAGCCACT	TTGGAACCTG	TGGGCTAACG	ATGTACGCAT	660
	CACCGTGAAT	GGGAAGCGGT	ACTTGGTGAC	TGGGCTCCTC	AGT		

1617UP

	GATCAGTTTCG	TCCAAGAATT	CATGTTCATGC	AGAGAAATGG	GAAGCAATTT	ATGCTCAGCT	60
	CCCTCCCCCT	GTTCTCTTTC	TACCGCCAGG	CCATGCAGGC	ATGTCAGGCG	CTCAACACAC	120
	CTAGTGACAA	ACTCGCCGTT	GTCCTGACAG	CCTATGCGTT	CGTAAATGTT	AAGGCCATCC	180
20	GATGTTTCGAA	GAGGTGACAG	AAATTCCCGC	TGTAAATTC	CAAAGAAACT	GTCCAAGGGC	240
	GTATCCTTCA	CAAAGTCGGG	GCGCCGCTGC	AGCACATCTT	CCAGCTTCCT	CTGTTCCCCC	300
	GAGGCGTTGC	TCATGCTCGT	GGCGATTGCA	CTTGCTCAGC	TCGGCCTCTG	CAAGTACGTA	360
	ATTTTAGCTA	TCGAAAATTT	TCCCTCCTGG	CGATGAGCTC	ACGAAGTCTA	CATACCGATT	420
	GACTAAGACA	CTTGCCACCC	GTTTGCGCCT	CATGCCACTA	CACCAAGGAC	CTCTGGACAT	480
	CGAGGATCAA	CTTGCCATCA	TTGCCGACGC	CCGCATAGGC	GATCTTGACA	GCCTCAAGCA	540
	AATCTTTTCC	GAGCTCATCG	ATCCAAAGCT	CCTGCCATCG	TGCAGCGACC	CAGACACGCT	600
25	CTGCACGCCG	CTGCACATGG	CTGCCGCCAA	CGGACACGCC	GACGTCGCCC	GCTAACTGCT	660
	CTCGCTGCTC	GAGCCCGCCG	CGGGACGCGA	CTGGGG			

1618RP

30	GATCCGGCGT	CCGGAAGAGC	AGCTTATGCT	GAAGGGCTAC	CTAAGGGACA	CAATCCCCCC	60
	CCCCCCCCAA	AAAAAAGCA	TGAGACTCTG	TATCAGTAGG	AAGTCTATCG	CATCTTCTTA	120
	TTTAGCCTGT	ATATGTCTTT	TCCGCGTGTA	GACAKTGCGT	TGGACGAGTA	TGCTCGATGC	180
	GGAATATAAC	GTACTTTTTT	GAAGAGTAAT	ATGGACTTTC	GACCTGCAAA	GTACCGTCTG	240
	CCGTTGCGGT	GTCAGACACT	CATCGGAACG	CAATTGTTGC	GGGATCACGG	TATGCTTCTG	300
35	TTGTATGCTA	TGGTAGCTAT	AGGGTCTGGA	CGGCTATCCA	GAGAGATATT	ATCCCATTA	360

1619RP

40	GATCAACAAT	GTGCCGCGGC	TGCTCCTGTT	CCGCCCGGGC	GGTGATCTGG	ATAGCTACGA	60
	GCCTCTCGGG	ATTCCGTGCG	ATACAGGCGG	CGCACGGGTG	CGGGCGATCA	TCGACACCCT	120
	CAAGAGTTAC	ACCGGCATCG	AAGACTTCGA	GTACCACGAA	CCAGTGAAC	GGGGCCAGTA	180
	TGCCGCTATC	CTCATGATGG	CCGTCCCCGT	AGTAATCATG	CTGCGCAACT	ACTGGTCCGT	240
	TGTGGTGTCC	ATCGCCCTTT	TCCGGCCTCT	GTGGGGGTTT	TCCTGCGTGT	CGATCGTCAT	300
	CGCACTTGTG	AGCGGCGCGA	TGTTTCAMCA	GATTAAAGGAC	ACTCCCTACG	TGGGCTCGTC	360
45	CGGTGATGGC	AATTACGTCC	AGTACTTCGC	AATCAGGCAG	CAACAGGTTT	AGTTCCGGGT	420
	GGAAACTCAA	ATCATCTCCG	TCATATATGG	CACCCTCAGC	GCAGGAGTCG	TACTACTTGC	480
	CATTGGCACC	AAAAGCATCA	GAGCTTACTA	CATCAAGTAC	AACTATAGCA	TGCACGCGGT	540
	GGTGCACTTG	TTGTTGTCCC	TCGCCGCAAT	ACTGCTTATC	TATATCTCCT	TCGCCGCCCT	600
	GCTCGCAGTC	TTCAAACCTGA	AGAACTTTGA	GTATTCA			

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1619UP

	GATCGCTTGC	TGGAGACCAC	AGATTTTCTA	CGGTGTGTCG	TAAGGGCGAG	ATGGCGTCGA	60
	CAACCACGGA	GGAAAAGCTC	ATGAAGCTGA	ATCCAACAGC	TACAGATGCG	AACAATTACA	120
5	TTAATACTGA	TACCACTGCG	AGCAAGCCGG	CTCCACCTTC	GTCAACAGAG	GCTGGACAGG	180
	CAATTGAACG	AGAAAAAATA	CTAGACCGGA	GGCAGACTGA	GAAGGACAGT	GTAGAGAGCA	240
	GCAAGGTTGA	GCGCCCGGTA	GTAGATGCAT	CGTACGTAGG	GTGGAGCAA	ATCGGCGGGT	300
	GGGAAGAGCG	CGACCGACTC	ACCGAAGATG	ACCTGCACTG	GGAGCTTGAC	AGAGAAACCT	360
	TTTTAAGCCA	TGTGCTGCCT	GCTGCTGCGT	ATGGCGACTG	GTATCACTCC	GTGGGGATAT	420
	TCCTCCTCGG	CGGATTTTTA	TCGTTTGCCT	TGGGCTACTT	CAAGTTCAGT	TTATCACCTG	480
10	TATTCCTCGT	AATGGTTTTG	ACGGCTTTGC	TATACCGTAC	ATCGATTTGG	AAGTACAGAG	540
	GGTCGATAAG	GGAACTGGTG	CAGAAGGAGC	TCACAGTGCA	GAAAGTAGAG	GATGACTACG	600
	AGAGCATGGA	CTGGCTCAAT	AACCTCTTGG	ATAAATTCTG	GACCAGAATA	GAGCCCAACA	660
	TTTCCGTGAT	GGTGTGGAT	CAGGTGAACC	ATGAATTGGC	TAAGAACCGT	CTGTGCCGGG	720

1620RP

	GATCAAACTA	TTTCTTGTTT	TGTTGGTGGA	AGCATACTTT	CGTCAGTACT	AACTTCTTCG	60
	CTCCACTCCA	TAAATTCGTA	TTCCCTATTG	GGATTAAATT	CCGGACCCAA	GGTAACGACC	120
	AAAAACATTA	GAGCAATAGA	TCCCCACACA	AAATAGGCCA	TAACCTTACC	ATAATCATAC	180
20	AATTCTTTAT	TGCCATTATC	GAGTGGAAAA	TTTCTTGCAA	GGCTGCTTTC	AAGCAACGAT	240
	GAGGGGCTAG	ATGCCAAGTT	TCCCAATTGA	TATGCCACGC	CCACGAAAAA	GGTTTTTCGTG	300
	TCTGAGTTTG	GAGCTAAGCA	GTGTAATGA	TGTGGGACAA	GGCCCCATGC	TCCTTGAACA	360
	AAAACTGTA	GGAAGAACAC	GGACACTATA	ATACTTCTAT	CATGTACAAA	TCCCCACGGA	420
	TAAACAAGAC	AGGCAGCCAA	CAAAATACAC	ACGAGGATAA	CAACTCTTCT	AGAGCTTATG	480
	CTGAAAAAC	GTGAAATGAA	AAGTCCACCT	ATTATAGCAC	CAACGTTGGC	TGCACAATTT	540
25	GTGACGGCTG	ACTGATTGGG	AGAATAACCA	AGTTGTTTAA	TGAGCATGGT	TGGAAGAGA	600
	TCTTGAGACG	CATGAGAAAA	GTAATTATAA	CCCGTCATAA	GCAATATCAT	GTAGATGACA	660
	ATGT						

1620UP

	GATCAAAATA	AAATAGAAAT	TAGCTTAATG	GTAGAGCATT	CGTTTTACAC	ACGAATAATT	60
	TGAGTTTCAT	TCTCAAATTT	CTAAATAATA	ATTAACAATA	ATTTAAATTT	GGGTAAAAAT	120
	TAATAAATAT	TAACGTATAT	AATAATTATA	TACTTTATAA	AATTACTCAA	TGTTATTAAAT	180
	AAATTTATTT	CTTATCATTA	ATAATGATGT	ACCTACTCCA	TATAATATAT	ATTTTCAAGA	240
	TTCACACTA	CTCATCAAG	AAGGTATTTT	AGAATTACAT	GATAATATTA	TATTCTATAT	300
35	GTTACTTGTT	TTAGGTTTAG	TTTCTTGAAT	AATAATTATT	ATTATTAAAG	ATTATAAAAA	360
	TAATCCTATT	CTTTATAAAT	ATATTAAACA	TGGTCAAATA	ATTGAAATTA	TTTGAACATAT	420
	TTTACCAGCT	ATTATTTTAT	TAATAATTGC	ATTTCCATCA	TTTATTTTAT	TATATTTATG	480
	TGATGAAGTT	ATTTACCAG	CTATAACTAT	TAAAGTTATT	GGTTTACAAT	GATATTGAAA	540
	ATATGAATAC	TCAGATTTTA	TTAATGATAA	TGGTGAAACT	ATTGAATATG	AATCTTATAT	600
	AATTCCTGAA	GAATTATTAG	AAGAAGGGTC	AATTAAGAAT	GTTAGATACT	GATACTAGTA	660
40	TTGTTATTCC	TGTTGATACT	CATGTAAGAT	TTATTGTTAC	AGCTCCTAGA	TGTTATTTCAT	720
	GAATTTT						

1622RP

	GATCCGCTGTA	TTTTTTATTT	ACATTATTTA	ATTAAAAATA	ATGATTTAAA	TAAATATTTT	60
5	TTATAAAAAA	TAATTAGTGC	ATTGTTACAT	GTTTCATTAA	GAATGATTAT	TATCAAAACC	120
	ATCAACTAAT	TGTTATATAT	TTATTAAATA	TTAATTTTAC	TTAATTAAGA	ATTAGGAACT	180
	TTATCTATTA	GTCTGGGCTG	TTTCCCTTTT	GATTATTAAC	CTTATCGCTA	ATAATCTGAA	240
	ATATTTAAAT	TTAGATTAAAT	AATATATTCT	GAGATTTAAT	ATTTTTTAATA	AAATAAAATA	300
	TTATTCCCTA	AATAATATTA	ATAACTATAC	CATATATATC	TAATATTTAA	ATAATCATAC	360
	TAACATATGT	TTCTGTAGAA	ACCAGCTATT	TGCAAAATCAG	ATTTGACTTT	CTCTACTTAC	420
10	CATTATTTCAT	CAGATAATAT	TGCTACATTA	ACCTGTTCAA	TCGTTTTTAT	ATTTTATTAT	480
	ATTTTAAATA	TAATAAATAT	ATATTTTAAAT	CATTTGATAA	TAGTAAGATC	ATCTGCTTTC	540
	GGGTAAATTA	ATATTAACCTA	AAATTTAATTT	ATTTTAATTA	ATTTTAACAT	TGTTAAATAT	600
	TTATATTATT	TTTAATATCA	TTTTTTATTT	TAATATTATG	CTAATATTAA	TTACTTGCTG	660
	ACCCATTATA	CAAAAG					

1622UP

	GATCCAGTTA	CTTAGTAGAA	TGATAAAATT	AATAAATATT	ATTTATTAAT	ATTTGGTTAA	60
	CAATAAAATT	CAATAATTTA	TTTAAATAAT	GATTAAATAA	TCTCAATATA	AAATTATTAA	120
	TATAATGAGA	TATATATTTT	TAAAAAGAAT	ATATAATTAA	ATAATCCCAA	CCAAAATTTG	180
20	TGCCAGCAGC	TGCGGTAAGA	CAAAGGGGGT	TAGCGTTAAT	CGTAATGGCT	TAAAGGGTTC	240
	GTAGAATGAT	TATTTAAAT	AATAATTAGA	ATTAATAAAA	ATAATTTAAG	AATTATTCAA	300
	GTAAGATGA	AATAATAATT	ATATGAATAA	GACTTATAAA	GTGAAAATTT	AAATTATATA	360
	TTAATTGACA	TTGAGGAACG	AAGGCTAAAG	TAGCAAATCG	GATTTCGATAC	CCGAGTAGTT	420
	TTAGCAGTAA	ACAATGAATA	CCTATTTTAT	TTTTATTAAT	TAAAGAATAA	ATTAAATGAA	480
	AATTAAAGTA	TTCCGCCTGA	TGACTACGTT	AGCAATAATA	AAAATCAAAA	CAATAGACGG	540
25	TTACAGACTT	AAGCAGTGGA	ACATGTTATT	TAATTCGATA	ATCCTCGATA	AATCTTACCA	600
	TTTTTTGAAT	ATTTAATTAT	AATAATTTAT	AATTAATTAC	AGGCGTTACA	TAGTTGTCTT	660
	CAGTTCGTGC	TGCAAAGTTT	TAGAATTTAT	CATAAACGAA	CATAACTCTA	AATATTTT	

1623RP

30	GATCACAAATC	GCATGGTATG	ATCGTTTTAG	AATCAACGAA	ATATGACAAA	ATGAAGGAAC	60
	ATATTGCCAT	AAGGACTTCA	GGTATTACAG	TCGCAGATAT	TCTATCGAAG	TCCACTGAGT	120
	ATGGTTTAGT	ACCTATACCA	AAAGAACAAT	TTGAACAGAT	TAAAATGGAA	TTAGAGCATC	180
	CAAAGTTTAC	TAGAGAGATG	ATTGTTGACC	ACGCTGGTGA	CTTCGACTTA	ATTGCAGTGG	240
	AATTAAAGGA	ATACAATCGC	CTCAAAAAGC	AATCGCAGTT	CTCCTTTGGT	GACATTTTCG	300
35	ATAGCATTAA	CACTGACGAG	GAAAGTGAAG	CATCTGATTT	TGAATATCAT	GATGACGAGA	360
	TAAAGCAGCT	TAACAAGACA	GCCAAACGCT	TTGGGTTATT	ATGTATTCCA	GAAAGCTGCGT	420
	TTATCGCTAC	TTCCGTCGCT	AGCACGCCCTG	ATGTCGATAA	TGTCGTCGTG	CTACCAATAA	480
	GCTACTATAA	TAAGTTGATT	GCGAATGAAG	CAAAGAGCCT	CGAAAAGCTG	ACTGACTGGG	540
	ATCTTCAGTC	AGAAGCTAAA	AAACGTGGCT	ATCATATAAA	TTTCAGCTTC	CAGAAGGAGG	600
	ACGCCCCACC	GCCGCCCTCA	ACCTATGTC	CTCCACGGAT	GCCGAAGTTT	TCCCCAAAC	660
40	CGTTCGACTT	TGTCACTAGA	CTCAAAAAC	ACTAGAAGGG	CGTTTAATGA	GGCTGCTACT	720
	GTGCGCGCAC	AGAGCGAATT	TGAACAG				

1623UP

GATCAGCGCA	AAACACATCT	GTATTCCCAG	CAGCATGTCC	TCCTCCACCT	GCCGCATGGC	60
CTGGCTTGCA	AAGCCGTCCA	CCTCGCGTC	AAATGAAATG	CTGTCCGGAA	TATTCTCCAG	120
TTTCGCAACC	ACAGGGTTCC	CGTGCTCGTC	GTACTCCTGT	TCCTCATCCT	CCTCACCTGC	180
CTCGTCTCCG	CCGCGCACGT	CCCACGGCCT	AATGCTCAGC	TGCGGAGCCT	CCTCGGGATA	240
CCGCTCCGGC	AGCGTAATGT	CCACCACCAA	GTGCTGCTCC	TTGCTGATCG	CAGCCGCCGT	300
GAATGAAGAG	CTTGCCAGCG	GGATCAGATC	CAGTTTTAGG	TCCACTTCAA	ACTGGATTTT	360
CGGGTACTCC	CCGCACACCA	CCGTCAAGTC	ATCGGCATAG	ATGGACTCAA	GCACTTCCAG	420
CTCCTGCTTT	TGCTCCTCCT	GATAGTCCAT	ACCTATCCGC	TGCACCAACT	ATGAGCCCAC	480
GCGCAGCTTA	GGGCTAGACC	GTTACAGCTG	CAGGTGACCG	TCCGGGGGAC	GATGCGCTAT	540
CGCTGGCGAA	ATTTTTTCGCC	TATACCACCA	CTTATGTTAC	CCGGTCTATA	GTGCTGCTCT	600
CCGACCTCAC	TGATGGTGCT	GTCCCCGGGG	GACTGCTGCC	TCGTGCGGGC	AAATCCCCAC	660
CGCTCTGAAC	GCTCGTTCCA	TCTGCGTCAC	GGGTGACCG	AACGGGAATT	GCGCGCGCCG	720
AGAAATCTTG	GCGAACCATG	CTGCACCTAG	CCTTACTG			

1624RP

GATCGCACGT	CATTTTACCT	ACAGGCTGGG	CTTTTGAAGA	AGACGCCTGC	ATGGTACAAT	60
GTCGTAGCCA	GGATCCCACC	TGTGACCAAG	TTCCGCCAGAG	AACCGAAGCT	GCATGACCCA	120
GTTAGCGGCA	AGTACAAGGG	CGAGCTGGAT	ATAATGACGG	ATAGATTAAA	CAGAAACACA	180
GAGACGTACA	AGACACGGCG	TGGGAGTTCC	GACCGGCAGA	CGGCCGCGGT	GCACAAGCCT	240
TCATAAGCTGC	GGTTTATCGA	GGACAAGCTG	CGGTGCGTGT	TTTTCCAGCA	GCATCCCTGG	300
GAGCTGTGCG	GGCCGAAGGT	GCTGGTGGAG	AACATGGGAA	ATGAGCAGTA	CGACTGGTCG	360
CGGATGTTGC	AGCTAGGCAA	GCCGCTTGAC	GGTGAGTCTG	TGGTGACGG	GACGCTGTAT	420
CTGCTGAAGT	CGGGCGCGCA	CCGGGAGATG	CTGGCGGCAT	ACGACCAGGC	GCGGTTTGAG	480
TTCTATCGTC	TGAGGATGCA	GCAGGAGCTG	GAGGAGCAAA	TAGCGTACGA	GGAGGCCACG	540
ATGGTTGGCG	CTGTGTTCAA	GACAACCGCT	GTGGAGCACG	GTCTGCAGCA	AGAGCAGAAG	600
GTCTCGACA	AGTGGAAGGA	GGACGTGGTT	GCGGGGTTGC	AGCTGATGTC	TGCGAAGAAG	660
AACCTTACAA	AGCAGTCGTG	GGCCGAAGCC				

1624UP

GATCATATAT	CTTCCTGTGG	TAAGGTCTGT	GGGAAGCAGC	TCTCCTGCGG	GAATCACACT	60
TGTCCCATGA	CCTGCCACGA	TGGTAACTGC	ATGGATCCAT	GCCTCGTTAT	AACTGAGCAG	120
AAGTGTGCAT	GCGAACAGAG	GCGTTTCCTT	GTTCCTTGCC	AGTTCCCCCA	TTCCCCAAGT	180
TGCACGTCAA	AATGTGAATC	ATTGATGTCT	TGTCGTGCGC	ATCGGTGCGC	TGAAAGATGC	240
TGTTCCGGTA	GACCGCATTC	TGTCAAGCGG	AACTCTAGGC	GGCGCCGTGA	GAGTCCAGAT	300
GATGAATCTG	AAGTTGAGGC	CCAGCACGTG	TGCTTAAAG	ATTGTAATCG	GGTGCTGCTT	360
TGTGGTATCC	ACATGTGCAA	TTACAAATGC	CATGCAGGCA	AATGTCTCTC	CTGCTTAGAA	420
TCAGATTCCA	ATGACTTTAT	CTGTCCCTGT	GGTAAGACAA	TCGTACCAGC	CCCTGTCCGT	480
TGTGGAACAA	AGCTCCCTCG	CTGCACTCAT	CCATGTCGAA	ACTCGCTGCT	GGTACTTTGG	540
CCCTGCGGAC	ACAGTCCACC	TTGCGATAAT	TGTCATCCCT	TAGATGAACC	TTGCCCCCCA	600
TGTACCATCA	CAGTCAAGAA	AACTTGTCGC	TGCGGTAAAA	ACGAGATCAG	GACATTTCTG	660
TACAATGATG	ATGTGTGCTG	TTGAGACCG	TGTTAGAAGC	CATTGTCTTA	TTGCAATCAC	720
TTCTGCCAAG	TTCCCTGTCA	TT				

1625RP

GATCAACTAC	GAGGACTTGA	CGACCGCACG	ACGGGAGCTC	GCGGCCGCGC	TGGCCACTTT	60
GGAGAATATG	TAGCGCACAA	CATCAGCAAT	GTTACAGTAC	AGACGTCTAT	CCGTGGGGTA	120
CGGCTATGAT	GAATAGAAAT	ATATACACAG	CTGCCTGCAG	GCAGCTTAGA	AGCGCAGAGG	180
CTTGGGCTTC	TCCCACGAGT	ACTCCTGGTT	AGTGAAGTGC	CCGTACGAGG	CGGTAGGTAG	240
GTAGATGGGC	TTGGCGAGGT	CGAGCTCTTT	GACAAGAACA	CCTGGTCTGA	GGTCGAAGTT	300
GTTGCGGATG	ATCTCGATCA	GCTCGTCGTC	GGACTTGGTG	CTGGTACCGT	AAGTCTCGAC	360
GTGGATGGAC	AGCGGCTCGG	CAATACCAAT	GGCGTAGGCA	AACTCAACCT	GCACACGCTT	420
GCACAGGCCG	GCGGCCAACA	GCGACTTGGC	GACCCAGCGC	GCAGCGTACG	CAGCCGAACG	480
GTCGACCTTC	GAATAGTCCCT	TTCCGGAGAA	CGCACCGCCA	CCGACCGCGG	CGGCACCGCC	540
GTACGCGTCA	ACAATGATCT	TTCTACCGGT	CAGACCTGCG	TCACCTTGTG	GCCACCGATC	600
ACGCGCGCGG	CGGACCGCTG	ACCTGATGCT	TGCTGTTTTT	GTCTAGCATG	TGCGCAGGCA	660

TGACCTTGCC	TACGATGCGA	TGCGCAACG	CGGAACGCAG	GTCTCGGTC	GAGATGTGCT	720
CCGCG						

1625UP

	GATCTGGCTC	TGCGCCATCC	CAAACAACCT	GGGTGTTGAC	AAGAACTACT	ATGATGAGCA	60
5	CAAGAAGGAA	TGGGCCATGT	ACCAGGAGAT	GATGAAGCAC	TATGCCAACG	AGGACCTTGT	120
	CGACACCAAC	ATGCAGGGCG	GGTTTATCGT	CGCGCCGCCA	CTCCACGAAA	TAGAGCTGGA	180
	CAACTTCCAG	CTCGGCGTCT	ACAAGGAGCT	CGTAACCTAGC	ATGTTCCTCT	GACTTCATGG	240
	AGTCCAGCAT	CGCCCATGTT	TTATGCCCAA	TACTTTTGAG	ACTATACTTA	TATTATATAC	300
	TGATAAACAA	TTTCCCGCGC	TCTCTCACGC	CCACTACTTG	TTCTCCGCGT	AGAAGAAGTT	360
	CACGGCCATC	AACTCGAGGT	TCTTCTCGCC	CGCAAACTCG	CCCACACCCA	CAGGGGGCCG	420
10	CTTCTCGGTG	TAGCCCCAGT	TCACGCGACT	CTGCAGGCGG	GTGACCTCCT	CCTCGCTCAG	480
	TTCTAGCCGC	CCGGGCTGCC	GAAACAACAA	CCACACGTAC	CGGTGAGCCC	CTGTGCCGGC	540
	CGGCGGCGCA	GGGCCCATGT	GCTCCACCTG	CGGGGTGCCC	TTTAGCACCA	CGTGCGACAC	600
	CCCGTCAATC	GAGCCCAGCG	TTATGTTTCT	TTCCAGAAAG	TGGCAGTATT	CCGACCACTT	660
	GTGGTCCGAC	CGCGAGGGAG	CATCTGGGTC	TGTCATCCCC	AGCGTGAATA	GGTCCCCCTC	720
	CTGACG						

1626RP

	GATCCGTGGG	GACCATGCGC	AGATGGCGCC	CTTAATATAA	GCCCCCTCCTC	GCAGGCATGA	60
20	CGTCTGCCAA	CTCCGACCAT	TCTAAATGGC	CAGCTGCTGC	TTTGATGGTA	GCGTCCGCGG	120
	CTGGCGCAGA	AGTAAATATA	GCCATTAAAT	CCCCTTCTAA	ATATACATTA	CATACCACCG	180
	CTCCAGAGGC	GCTCCCGAGG	CGTCCCGAG	GCGCCCCACG	TCTCGCCGCA	GCGACGCGCG	240
	TGCGAGCTGG	CCCTCTGGCC	ACGCAGACAT	GCGCGCCGAC	GCGCCCCACG	TATATACAGC	300
	CTGGCCTGTC	TCATATGCAG	ATGGGTCTGA	GCGAAAGAAG	TTCTCTGCTC	TCCGAGAAGC	360
	AGTCGTCTGT	ACCCTCGCGC	TCCGCGCCCA	ACCGCGCAGC	AGAGAATCTT	CCAGCGCTTC	420
	CCGCGGACCC	GCACTCGGCG	TACCCGTGCA	GGTAAGGATA	CTTCGCGGCC	GCCGCGGCAC	480
25	CACCGCCCTC	AGCCTGACTT	GCGCAACGGC	CATACGCAGA	GGACCCGCTT	GCCTCCGCGC	540
	TTTCGTGCCT	GTGCACGTGA	TCTCACCGCC	TGCCTCAGCC	GCCCTCGTCA	ACGATGCGCA	600
	CCAGACCCTC	CAGAGCGTGC	CTTCGTGCCC	AAGTCGGAGC	CCA		

1626UP

	GATCCATGCA	TATTTGCGAA	CTTACGAAAA	AAGGCGTGAA	GAGGCGGAAC	GTAATCTAGG	60
30	TTTGGAAGAA	TTAATGAATG	ACAACATAGA	CCTTGTTACA	GGAGAAAATA	ATGAAGAACG	120
	CCAGCTGAAA	CAAAAGAAAT	TGTTAGAGGA	GCAGTTGGCA	AAGTTGGAGA	AATCAAAGGA	180
	AAGACGACAA	GCACGCAAGG	CCGCGAAGGA	GAAGAGCAAA	GATGGCAAAG	TCGTGAAAGT	240
35	AAAAAACACC	ACGCGACGCT	GCGCAACATG	CGGTGCGATC	GGGCATATCA	GAACATAATA	300
	ATCCTGCCCC	ATGTACAATG	GTGGCGTTGC	AGCAAAACGA	AACGCAAAACG	CGAATGCGTC	360
	GAGTGCAGCA	GCTGCAGGTT	CTTCAGGGAT	GGCCTCAAAT	AATAGCGCTA	CCAGCAAGTC	420
	TATAACTCCT	AATGCCAGTA	TTCCGCGGAC	TTCAATCGAC	TAGCTCGCAG	TATAATATAT	480
	ATCTAATATG	TACCAATTGT	ACTTCTTTTCG	ACTGCTATAG	AACTTTCTCC	TCTTCTTGCA	540
	TCACATGTGC	AGCACTGCAG	CACCGTGCGC	CTCGCAATAC	TTATGGACCG	CGGCACGGTC	600
40	GGCCTCGTAT	CCAGCGTACG	CTATGTATCC	TGCGGGACCC	TTATTCTGTG	GCGACACGGG	660
	ATAGTGACAA	GACTCCACAG	AAGTGTCTCT	TACAATGCAG	AAGA		

1627RP

	GATCTTCCTT	GAATTTACTT	AGCAGCTCGT	TAATTTCCCTG	CTTCTTCTGC	TCTCTAAGCT	60
45	GGAAATCTGTA	AAAGTCCTGC	TTGGCCTTCT	TGTCCACCAT	GCTGGGAGGC	TTCTCCTTCC	120
	GTGTATGCTT	AAGAAGTGGA	TTGCGGTTCA	GAATCCTACG	CCTTATGGAG	TTTAACGATT	180
	TGTGTTCCTT	CCCTACTACA	AGTGTGAACC	CGTCTCTGTC	CACAATACTC	GATTGAACCT	240
	CATCTGCGC	AAGTTGTTCC	CGTTGCTCAA	ATAACAACAT	ATGCTCGTGA	ATGTCGCTGC	300
50	GCAAGTACTC	AAGGTGAGT	GGCTTATAGA	AGCTCTGGAA	GGTCGCTATC	GAAGGAGACT	360
	GGAAAGCCCA	CTCCACCAAT	TCCTTTTGTG	TGTGCGCGTA	TTTGCGCAGA	GCAGCCCAGC	420
	AGTTCTCCAG	AGATGCCTGG	TCCACAACT	TCAACAGAGC	ACTGTTTCTC	GGTGTATACC	480
	TTCTGTCTCT	CGCATCCCGG	GTGTCTCTGA	AATCGGACGT	CAGCGCACCC	AAATCCACCT	540
	CGTGCAATCC	GAACTCGTGC	TGATGTAGCA	GCTCTGCCAC	ATGCGCCACA	GTCTCGTACT	600
	GCGCGCAAA	CCTGCCAAAG	CTCTCCTTGA	TAGAGTCGAC	CTGTGTCAAC	AGAGGTAAAT	660
55	TGACAAATAA	CAGGCAATTA	GCCTCCGATT	CCACCTTCGT	CTGATGCTTC	CTC	

1627UP

	GATCTTTGAG	ACGCGGCCCTG	GAGAGTTTATG	AGCAGATTGT	TGACCAACGC	ATAGCAGATG	60
	CTAGACCTGA	GTCTATACACC	CTCCGTCTTG	TTGGAGACAC	GGAATTGCTA	AATTCAAAAA	120
5	TAAAGGAGGA	GGCAGATGAA	GTGATTGAGG	CTATAACGCC	AGCTGAACTA	CAATGGGAAG	180
	TTGCGGACTT	GCTGTATTTC	CTCATGGTTA	AAATGAGGAG	CAATAATGTG	ACTTTAAAGG	240
	AGGTGGAAGC	CAACCTAAAC	ATGAAGCACA	TGAAGATTAC	GAGACGGCCT	GGAAACGCGA	300
	AAACAAAGTA	CCTACCCGCG	CAGGAGTGCC	AGAAGAACAA	GGAAACTCCT	GTAGATATTG	360
	CACCATCTGC	CATTTACTTG	AACGTCGTAT	CCTCAGATGA	TGAGGCCGCA	TTGAAAAACAG	420
	CAATTACAAG	GCCAAATTCAG	AAAACACTTG	ATATATTAGG	TCTTGTGAG	CCTATAATAA	480
10	AAAAAGTGAT	AGAGGAGGGC	GACAATGCGT	TGACTGAACT	AACAGCGAGG	TTTGATGGAG	540
	TAAAGATAGA	AACACCAGTA	CTAGAGGCTC	CTTTTGGCGA	CGAGTATTTA	AAAGGATTAA	600
	CGGAAGACGT	CCGTACGGCC	ATAGATATTT	CGATGGAGAA	TGTCCGTAAA	TTTCATGCCG	660
	CACAGCTGAG	AGACGATATT	CTCAAGGTGC	AAACGCAACC	GGGGGTGGTA	TGTACGAGAT	720
	CCCAGGGCCA	TAGAGA					

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1628RP

	GATCTGCCCC	TTTAAGCAAC	CACATATTAA	GCCGCTGACA	CACAGACTGT	CAGCGCTTAG	60
	AAATACTTCG	GTGAGTGTTT	AGAAGCCCGA	GCGCTCGGAG	TTATTTCATGA	TCACGTGATG	120
20	GGTATTGACC	TTGCGATCCA	CAGACAGGCG	GAAATATGCA	TATATGTAAG	CCAAGATGCC	180
	GGCAACCAAT	TGGTCTAACT	GTAATGCATA	ACACTGTATT	CCGCGAAGCG	GCTCTGAGCA	240
	TGTATGGTAT	TCGGCGCTAG	ATTGTCAGCC	CACGTATATT	TCCACGTGAC	GCCCTGATGC	300
	TATTTACAAC	ATAATCACTA	TTGACGAGCA	AGGATAGTGG	TCGCACGTTA	CGAAAAAGAA	360
	ACGTTGAAAA	ATTTGGATGG	TGGTGATGAG	GTAGAGATAT	TAACGTTAAT	GGGCGAGCAC	420
	GAATTTGGTC	GAAGTTCTAT	ACTGCCAACG	ACGTTTCGCG	ATTGCTGAGT	TGATGGGTTT	480
25	CAAAAGTATT	AAAAAGGCGG	TAGTCCCTAA	ATTATCGGAA	AAAGCCAAGG	AGGAAGAGTT	540
	GAGCACTTCG	GGCTCCTCTG	ATTCTACTTT	AGAATCAAGT	TCATCTTCCT	CGTCGGAGGG	600
	CAGCTCCAGC	AGCAGCTCTA	GTTCTCTCCG	ACAGTGAATC	GAGCTCGTCG	GACAGCGGCT	660
	CCAGCTCTTC	TAGCAGCAGC	TCGAGCTCCT	CCGGCGAATC	GGGCTCC		

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1629RP

	GATCTCCAC	ACTAGGCTGG	GTCTTACTGT	CCATGAATAG	CATTGCAAGA	ATGGAGGAAT	60
	CGGTCTTCAA	GTGAGCGGGG	AAATTTTCAG	GGCAATATAA	TGGTTCCCAA	GTATTTAGAA	120
	CTTCTCGACT	GTGTCAGTA	CTTGCCCCCT	TTAAATCGGC	TGTTCCCTTT	GAAGATATAC	180
35	ACCATTTCATT	CCAGTGTATC	GTACCCGAAA	AATTAGCAGT	AATGGCACTT	GGAACATCAT	240
	CCGGAATCGT	GTAAGCACTT	GCAATAACTG	AAAGCTTTGT	AAGAGAGGTA	AAAATCGGTG	300
	CGCGCGTTCC	AAAATTGTCC	AAATTGTGAGA	TTTGTGTATC	TTTATTAGGC	CTACTGGCCA	360
	GTTCCACTAG	TGATCTAACG	GGGCTTATTT	CAGTGGTTAG	AAATTTATCC	TTCTCAGTTT	420
	TCGACTTACA	AGCAAACCTCA	GTGAACAAAG	GGGGGTATCG	ACGAGCAGCT	CTTGTGTAAG	480
	CTGCTGAGGT	TTTCCCTTGT	GAAATAACAT	GTTCTTTAGT	TTTATGTAGG	GCTCCAAATC	540
40	ATGCCGTTAA	CTCTTTTATA	CTGGTTGCTT	GGAAAATTAA	AGTACCAGAG	TTATTAGAAAT	600
	ATTCTTCCCTG	AGGTGAAGAA	GTTAATGGAG	AAGAGATAGT	CATTGCAAG	CAGTATTTAC	660
	GTGCCTCTTC	TGGATGGTGC	ATGGCACTGA	GTAATAATAC	TCCAAATCTG	TCCGTTTCTT	720
	CGACTGCAGT	TTT					

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1629UP

	GATCTCGGCT	CGCTGCTCGC	GCTCGAGCCC	TACTGGGCAG	AGCGCTACCC	AATAAACAAAC	60
	GCCCTAATCG	GCGGTGCAGA	TAAATTGCAC	AAGCTCTACT	CAACCGATTT	TGCGCCCATC	120
	GTGCGCGCCA	GGACTTTTCGG	CTTGAACCTC	GTGACAAGC	TTGGACCGCT	GAAAGACCTC	180
50	ATAATGGCAA	AGGTGAGCGG	CCCAAATTAA	TAGTCACGTG	TACATAAAGG	TTTTCTTAAT	240
	AGCTATACAG	CTTGCCCGCG	TCCTCAGCTT	GCAGCGCGCA	ACCGGCGTGC	AGCCATGAGC	300
	GTCTTACTGG	AAACTACCAT	TGGCGACCTT	GTAGTAGACC	TGGACTACAA	GACATGCAGC	360
	GCCGAGAGCT	ACAACCTTCT	CAAACCTCTG	AAAACCTCGT	TCTACGACTG	TCAGTGCATC	420
	TACGACCTCC	ATCCTGAAGG	CTCAGCACGC	CTCGGCGATC	CACAGGTGGG	CTTTGCATTG	480
	CGCACGGATT	TGCCTGTACA	CAATACCTCG	ATCGAAGGCC	TGCGCGACAC	ACGGGCGGTC	540
55	ACCCCGAAGC	TCATTGAAGC	CTCCGTTGCC	GCTCAACCCG	CAGAGCGCTT	CGGACAGGTC	600
	CGCTGCTCGC	CGCTGCTCGC	GCTCGAGCCC	TACTGGGCAG	AGCGCTACCC	AATAAACAAAC	660

CCCGAACTCG GCCCCACATC AACACAGTGC GCTTCGCGCA GGTCATCGAC GAGTCGCTGG
CAGTTCTGCA GCAGCTCAGC GA

720

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1630RP

	GATCGACTTT	CAAACATTAT	TATACAGATG	GAGGGCATCT	CACATCTTGC	ACAGCAAGAC	60
5	GGCAATCCAA	CAGGTTCTGT	AATGCAGCCT	AAGAGGCGAA	GGGTTGAAGA	TGGAGCGTCT	120
	AGTGATGGAG	AAGTACGAGG	AGAGATAAAG	CGCAAGTATG	GTATTGGCGC	GCAGTTGATG	180
	GCCAAAGATGG	GATATAAGGA	GGGCAGCGGT	CTAGGGAAAAG	AAGGTACGGG	ACGCACGACG	240
	CCGATATTGG	TATAGCAGCG	GCCGCAGGGC	ATGGGGCTTG	GAGCCAACGT	CTCCATTTCC	300
	TCTGACTCAG	AGCAGAGTGA	GGTGGAGCTT	GTGACTCGCG	AGGCAGTGAA	GTTTGAATCG	360
	AAAGGTGTGG	AGACTGACAC	AAGCAGAATA	GCAGACAAGA	TAGCAAAGCT	GGAGATCGCA	420
10	GGAGTGCAAG	TCCCCGCGA	AGTGATGAGT	TTGCGTTCTG	GGACAAAGAC	GCTGGGTTAC	480
	CAACGGGCTG	CAGCGATGGA	AAGGGTGCTC	TCGGAACTCG	TGCAGGTGGG	TGAGCAACTT	540
	GCGACCCCTAC	AACTACGCGA	AGATCAGCTG	CAGCAAGGGC	TAGATGCGGC	CATTCAGAGT	600
	AGTGACCTGT	TGAACAAGTT	CTCAACGCGC	TGCAACAGCC	GACTGCGCTG	CCGGAGCGGG	660
	TAGCGGCATA	TTGGCCTTGG	AGGACCCAGA	AA			

1630UP

	GATCGTCGCC	TCATCGGTGA	GCTGCGCCCC	ACGGGCGAAC	CTGGCAGCCT	GCCCCGGCGAC	60
	CCGCGCGCGG	TGGGCGACCC	GCGTCCAGTC	GGCGAGCCCC	GTGGTCCCCG	GACCATGGTT	120
20	ACCGTATCGT	CCCCGACAAA	TGGCGAGGGG	TAGATGATGC	CCTCCTCCGC	CTCCGGCGTA	180
	CCGCCGCGCT	CCGGCGGTGT	CGCCTCCTCT	GTCGGGCTCC	GCCGCGTCCC	GTCCCCAGAC	240
	AAACGGTBGCC	CGGCCGGCAC	CCCAACGCCG	AGGCCTTCCG	CGGGCGGTGG	CGGGCGGCGC	300
	CGGCTCCGCG	CTCCGCCAAG	GCCCTTGCCC	TGACCCAGTC	CTGTAGGTCG	CTCGTGGTCA	360
	TCGAAGGGCG	TCCAAGCAAT	TCGTGTACGA	TGATCTATGC	CAGCCGCAGC	CTTCGTCAAC	420
	AGCGGCGGCA	GCTGCGGCAG	CTTGGGTTTG	GTCTCGTCCA	TATCGTGGTC	TCGGTCTCTG	480
25	TAGGCATCAT	ACATCTCCCG	CTATCTTTCT	CTTGCGCCTG	CACCGGTACC	GTGCATTGGA	540
	AACGCTGCTC	CTGCCCGAGG	GCAGTTCTAT	AACGTTGCCA	GTGAAAATCG	TGCAGTACGG	600
	AACAGTAGCT	CATCGCGCAC	CAGGCGAACA	CATAGGCAAC	AGCTTCGGTG	TAGCGGGCTG	660
	CGGGCCCGAC	CACGATACTC	ATGTTACATA	GACTCACATG	ATCAGGCAGC	AC	

1631RP

	GATCTAATTT	ATTTACATTA	ATTAATAATT	AATAATATTT	AATAATATTC	AATAATTTAT	60
	ATATTTTATT	ATATTTAATA	ATTATATAAA	TACTTTAATT	ACATAAATAC	TTTAATTAGA	120
	GAGTTAGGGT	TCACCCCCCT	AATGCTTATC	AGCATTATGA	GGTACCACCT	TAATTAAAGG	180
35	TAAATATATA	TATTTAATAA	TAAAAGGATA	TAGTTTAAAT	GGTAAACTA	TTGACTTCAA	240
	ATCAATCAAT	AAGAGTTCAA	ATCTTTTAT	CCTTGTTATA	TTTTAATAAT	ATAAATTAAAT	300
	AAATAATAAA	TATGATAAAT	CATAATATTA	AAGATATTGA	TTAATATTTT	TAATTAAATTA	360
	AATAATATGC	AATTAGTATT	AGCAGCTAAA	TATATTGGTG	CAGGTATTTT	AACAATTGGT	420
	TTATTAGGAG	CAGGTATTTG	TATTGCTATT	GTATTTGCAG	CTTTAATTCA	AGGTGTATCA	480
	AGAAAATCCAT	CAATGAAAAG	TACTTTTATC	CAATTTGCTA	TTTTAGGTTT	GCTATTAGTG	540
	AAGCTACAGG	TTTATTCTGT	TTAATGATTT	CTTTCTTATT	ATTATATGGT	GTTTAAATTT	600
40	ATTAAATTAT	ATAATAATTA	ATATTCAAAA	TAAGTTATAT	TAGCTTAATT	GGTAGAGCAT	660
	CCGTTTGTGA	ATCGAAAAGG	TTAGGAGTTC	AAATCTCTTA	TGTAACAATT	TAATTAAATT	720
	AAATAAAGA						

1631UP

	GATCTTAAAA	TAAGATAGAA	TGGTAATAAA	TATCATTCAG	GTACAATAGA	TGCTGGTGTT	60
45	ACTAAAGGAT	TACCTGGAAT	ATAATTATCA	GGATGTCTTA	AAGTATTAGG	TGAAAAGAAT	120
	ACAAATAATG	AAAAGAAAAT	TATAAATACA	AATACTGTTA	CTAAATCTTT	AAAAATAAAA	180
	TAACCATGCA	TTGGTAATCT	ATCTAAATTA	CCTGTAATAC	CTAATGGATT	TGATGAACCA	240
50	TGTACATGTA	ATAGCATTA	ATGCATAATT	ACTATTGCTG	CAATAATAAA	TGGTACTAAA	300
	TAATGAAATA	GAAAGAATCT	TATAATAGTA	GGATTACTAA	CACTAAATGA	TCCTCATAAT	360
	CATAGTACAA	TATCATTTCC	AATAAATGGA	ATAGCACTAA	ATAAATTAGT	AATAACAGTA	420
	GCACCTCAAT	GTGACATTTG	TCCATATACT	AAACAATAAC	CTAAGAAAAGC	TGCTGTCTATA	480
	GTTAAAATAA	AGATAATAAC	ACCAACTGTT	CATACAATAA	CTCTAGGTGA	TTTATAAGAA	540
	CCATAATATA	AACCTTTACC	AATATGAATA	TACATACAAA	TAAAGAAGAA	TGAAGCACC	600
55	TTAAGATGCA	TATATCTAAT	TAATCAACCT	AGTTGTACAT	CTCTCATAAT	ATGTTCTACT	660

1632RP

	GATCTTCGCG	CCGTTGCGGC	CCAAAACCCG	CAGCTCCCAT	ATACCCGTGT	TCAGGTTGAA	60
5	GCTGATGCTA	GCGTGCTGCC	GCGACACCAC	TTTCGCAGGC	CCCAGGTCGA	TGTGTACTGA	120
	CCGGTCCTGC	GGAGACGTGT	TCCGCCCGAT	ACTCGTCATC	ATGTCCTTCA	CGTAGTACGT	180
	CCAGTCTCGT	CCCGATATCT	TGGCGTACGC	CTGTACTTCC	GTTGCCGTGT	TCTTGTCTGT	240
	CGAATATACT	TGCGACACTG	TCGTCGCCTC	CTTCGGCGCA	TCCAGCACCG	AAATCACCGC	300
	ATTGATCACG	TCCTGTCTCC	GTTAGTACTC	GGTCTCGTGC	CGCCCGTCTC	GCTCCTACAT	360
	ACCTGCTGGT	GCTGCTGAGA	CGCAAAATGGG	TAAATTCATCT	CGTCGCCTCA	ATTCGCTCC	420
10	TCCACTGGCT	GCCCCAGGGT	AACGTCGGAC	TTCCGTTGCT	GTGGAAGGGG	TGGTCGCTCA	480
	GCGTAGCTCG	GTACAGCTGA	TCTCGGTCTT	AGTATCAACA	AAGCAAAAAT	AAAAATAATA	540
	ACAATAAGCT	TTTCACTGTG	TGTGAACGTC	CCAGAACTG	ATTCCAACGC	TCCAACACCG	600
	CACCTCTTGA	AGCAACCTCA	CGCACCCCTC	TGAATGACAG	ATCACCTCA	CTAAACGG	

1632UP

	GATCGAGACT	GTGATATAGC	TGTATAAGAA	GGTTTGGA	CCTTAGTAAA	TACCCAACCT	60
	TTTTAATTCG	AACCTTGTAC	AGGTTTTATA	CTCAATTGTA	GCTTTGAGTT	GCAAAATACCC	120
	GAGGCATAAA	ATCAAAGCGT	ACTTAAAAAC	AATCACTACA	TACAGTCCTC	CACACCCTGC	180
20	CAGAGTGGAA	TAACATGAAG	AATAAATATT	AAGGACAGTA	ATGCTATAAA	TACATGTGCT	240
	TCAAATAAAT	ATATGCTTGC	TAAGGGTTTT	CAAATTCGGT	TTGCGGCAAA	GAGTACGCAA	300
	TAAGTGGATC	TTGGGAAAGT	GATGGGGGCA	GATAACGACC	AAACAAAGTGA	GTTTCCACGT	360
	TACCTATATC	TTCTCTGCGG	ACAAAACCTGC	CACGTGTTGAC	CATTGTGTGT	CTAGGTGTTT	420
	GATGTATGGA	TGGAGTATCA	GCACGTCCGG	TAGAGGAAGT	GGGAATTAGT	GAAACTAACG	480
	TCCCGGAGAA	ACTGGATGCC	ACACGATTGT	TTGGTAGTGT	GGGGGGCGTG	TTAGGATTTT	540
25	TAATGTTGGT	TACTGGGGTG	CCTGATGGCA	ACGATGGGCC	AGAAAAGTAT	ACTTGCTCCT	600
	GTGCTTTCAA	AGATGGGTCA	ACAGCCCAAT	TGTGAAAGAA	ACTGGCATT	CTAGTCTCAG	660
	GGATGCTAAT	AAGCTCTTGG	ACAGAGTTGT				

1633RP

30	GATCAATTAA	TAAATGGTTT	AACTAATAAA	GTTAATAATA	AATCTATTAA	TTATATAAAA	60
	CTACCTGATT	TTATTGAATC	AAATAATATT	TTCTTAATGA	ATACTACTAA	ATCATCATCT	120
	ATTGAGTTTA	TATTAAATTC	ACCACCTCTT	ATTCAATTCAT	TTAATACTCC	TCTAATTCAA	180
	TCTTAAATA	TTCTTAATTA	TTAAATTATA	TAATAAAAGT	TAGTGGATAT	AGTTAATTG	240
	GTAAACATA	TGTTTTAGGG	ACATATATCT	TCAGTTCAAA	ACTGAATATC	TACATATTAT	300
35	ATCATTAATA	TAATAACTCT	TTAATTAGAG	TGGTACCACA	AGAATGCTGA	AAGCATTAGG	360
	GGTGTGTACC	TTAGCTCTCT	AATTAAGTTT	ATAAAATTAT	CTTAACTAAT	AAAAATAATT	420
	AATTAATAAA	ATAAAATAAT	AATTAATAAT	AAAAATTTTA	AAAAAAGAAA	TAAATAATAT	480
	GTTATATTTA	AATAGATCAA	AATTTCAACA	ATTTCCATTT	CATTTAGTAC	TACCATCACC	540
	ATGACCAATT	GTTACATCAT	TTAGTTTATT	AGGTTTACTA	TTAACTTTAG	CTTTTACTAT	600
	ACATGGTATT	ATTGGTAATA	TTTATCCTTT	ATTATTATCT	TTATTAGTAG	TTTTATTACT	660
40	AATAACTTTA	TGATTTAGAG	ATATGGTAGC	TGAACCTACT	TATTTAGGTG	ATCATACTTT	720
	AGCTGTAAGA	AAAGGTATAA	CTTAAGGTT				

1633UP

45	GATCTTAATT	TAAAAATTTA	ATTAACATT	TATAATTTAG	AAATATATAA	TCTAGAGATA	60
	TATAATCTTA	AAATCATAGG	TAAAAATACA	TAAGATAGTA	AGAATAAAAT	TAGTAAAATA	120
	AATAGAAAAC	CATAAGTTAA	TTGATTCATA	AAGAAAAATG	GAATTATTTG	TGGCATCTTA	180
	ATTTTATTA	TTTAATTGAT	TATTATCTAT	TTAACATAAA	ACATTTTAAA	ATGTTATAAA	240
	ATAAATAAGA	AATTACTTAT	AGAATATTTA	TTAAATAGTA	TTTAATTTAA	TTTTAATATT	300
	AAATATACCA	TTTTTATTAA	TAAATAGATT	ATTAAGTTTA	TTAATATTAA	GTGATATATA	360
50	ATTTAATTTA	TATAAATTAT	TTAATTTACT	TCATTGATAT	ATATAATTAT	TAAATGTACC	420
	TTTCATAATA	TTTATTTTAA	TTAGTCTAGT	AATATTTCTA	TTTAATAGTC	TACCCTTTAA	480
	TTGGATATTA	CTACCTACTA	AATATTTACC	TAATAATATA	TTATTAAAGAA	TACTTAAATC	540
	TAATAATTTA	TTATCTAAAG	TATATAAATT	AATTAAATCT	TTTTTATTAT	TATTTAAATT	600
	ATTATTAATT	AGTAAATTAT	ATTTATTTAT	TTTATTAACA	TAATTTTTTG	ATAATAATAT	660
55	ATCATTATTA	AATGGTTAAT	TTATTAATAA	TTATCTTTAA	TGATTTTAAAT	GATAAACCAT	720

1634RP

	GATCCATCTG	CGGTTTGTGC	GACGTCCTGT	GAAACTCTAC	CAGGCGAATA	GAACCTCTGAT	60
5	AGACGACTGG	CAGGTGTCTG	TTGAGTGGCA	ATAACGGGAT	TTGCATCATC	TATATGGGCA	120
	TTCTTGGTAG	TATCTATCCT	TAGACTCGAT	AGGGACCCAT	GCTTTACAAG	TTCAGGTTTC	180
	GCTTGCGGAG	CCACGACATC	CTTTCTCGA	TTTAGGAATG	ACAAAATTGA	GGAGTTCCCTC	240
	CTATGCTTGT	GTTCAAACCTC	ACCAGCAATG	CTGGCTCGTT	TATTGGTACT	CGCAGATACA	300
	TTCTTTGAAT	GTCCATAGAT	ACTCGAAGAC	GGCCTTCCAG	TGGGAGCTGG	AACGGCCAGA	360
	CTGTCTTGTG	CACCTAGCCC	TTCTGTAATCG	TTTGGAGAGG	AAAGCATGGA	AATTCGATTG	420
10	AACAACCCA	CAAACGAGCC	ACCCGATTTT	GTCTTCTTAT	GTCTCGCTCT	TATACTCTCT	480
	TCCGGAATGG	CCCTTTCAAA	AGTACGCTGC	ATCGGAGATA	TGCCAGGATT	ACTGTAAGGA	540
	TTTCCAAGGT	CTGGGCCATC	AGGCTGTTTCG	TCCACAGCAG	GCTGCATAAA	TACTGTGGGA	600
	TAGATTGCTT	TCTCGAGGAA	GTGTAAGAAG	CTGGTGAGTT	TAGGGTTTGT	GGGCCGTGTT	660
	CGTAAATGGT	AATGTGCTGA	TTCTTGGCTT	GATTCTGCAA	AA		

1634UP

	GATCACAGCG	TGGCCAAGCC	CAGCATTGTG	TCTAAGTTAC	ATGTAGAGGT	CGAACAGCAC	60
	GAGGGAATGC	TTTTTCGCTAC	GGCGGAATTC	GAGACCTTCA	GA CTGACACC	GCAGATTTTC	120
20	TGTGCGGCTC	ACCAGCCCTT	AAATAGCTAC	AGCAACACAG	CTGCGCCGGT	GTACACTGAT	180
	AGCAAAGATG	AACCGGTCTA	TCCATTCTGC	GGTGA CTGCG	ATGGCCTCGG	ACGACGCCAG	240
	CAGTCTTGG	CATGAGCGGT	CGACGTACTC	GGCGGAGTCA	GAGGAAACGC	TCGTCAACTC	300
	GTATGGGCCC	TACAGCACCA	CGGGAATCGT	GATGACATCT	GTGATGATGA	ACAAGGCCCA	360
	GCGCAAGGGC	GAAGTGTCCG	AGCAGTGGAT	GCGGCTCTTC	CTGGACAGCA	CGCCTGTCTGA	420
	GGACGTGGCG	GTGCTGCAGC	GCGGGATGTC	GGTGACGGGG	CGCTGCCCTGG	ACACGTTGCA	480
25	GCGCATCTTG	CAAAGCATGC	ACGGATACCG	CCAGATCGTC	CCGGGCCCTGG	CGATGTTCAA	540
	AGAGGCATGG	AACCTGCAGT	GCTACCACGG	CAACGAGGGC	GACTTTCCGC	TGCTCGACGT	600
	GCCGATCAAG	GTCAACAGCC	TGACCACACT	GGCCAGCCTG	CTGGTCGAGC	ACCGCGTGTC	660
	CGGTTACAGC	ACGCCGATCG	AGCAACTCAC	CACGGTGCTT	CAGTACCTCA	ACAAGCTGCT	720
	GCAGGCGTCG	CGCGTC					

1635RP

	GATCCTAGGG	TGGTTCATGG	CACTGAGCGG	GACCGTGTTT	TTGGACCGGT	CGAACCGCAG	60
	CAAGAGTCTG	AAGTCGCTGA	ACGCGTCGCT	GGAGCGGCTG	AAGCGCAATC	GGCAGGCGGC	120
	GTGGATTTTC	CCAGAGGGCA	CGCGGTCTGT	CACAACGGAG	ATGCAGCTGC	TGCCATTCAA	180
35	GAAGGGGGCG	TTCCACCTGG	CGCAACAGGC	GCAGATTCCG	GTGATTCCGG	TTGTGATGTG	240
	CAACACGAGC	ACGGTGTTC	ACCCGCGGCT	GGGCATCTTT	AACCGCGGCA	CGATCACGGC	300
	GAAAGTGCTG	GAGCCGATCG	ACACGGCTAA	CATGACCAAG	GATGACGTGG	ACAAGCTTGT	360
	GAGCGACGTG	CAGGCCAAAA	TGCAGGCGGA	GTTTCGAGGCG	CTTGGCTACG	CGCCTGCCAT	420
	CGTGGACACG	AGCCTACCCG	AGGAGGCGCT	GCGGCCGGAG	TTTGTGGACT	GCAAGGAAGA	480
40	CATCACGGAG	GTAACGCGCC	TCTTGAAGTA	ACCTTGCTTG	GTATCATATA	AACGTTGCCA	540
	CGAGTTATGT	ACATATAGCG	CTGCTAAGTA	GGCATTCACT	CCCACGAACT	CATACCTGCG	600
	TGAGCTCTAC	GCCCCGCCGA	TGTGGGCCAG	ATACTTGTCTG	ACCTCGCCAG	CGGACCCGAG	660
	CCAGATCGAG	GACTTGTCGT	GGATGTGCTC	GGGAGTAAGG	TCCAGAAATG	CGCTCGCCGC	720
	GGTCGTTTAC	GGCCTTG					

1635UP

	GATCGGACTG	ACGGTGAATA	GGCCACCGTA	GCATGCGCCG	CTGAGCGCGC	TGGCGAGCGA	60
	TAGCAGCGGT	CCGTCCGAGG	CTCTGGTGGC	CAGGACAACG	ATCCACTGGC	CCACCACGCC	120
	CAGTAGGAGG	ACTGCCCACT	GGACTGACAT	CGTCGACACA	CCGTGTGGA	TGCAGAGGTC	180
50	AATTATCAAG	CCCGACAGGA	AGCGCGAGCA	CGTCGAGGCA	ATCGCAAATT	CTGGCAGCAC	240
	CGACCGCTGG	CCCAACAGGC	TGCACAGCGA	GCCCATGTTG	GTGAGGAACA	TCTCCATCGG	300
	GCCCGAGCGAC	AATAGCCAAC	CAAGGCCAT	GAAGTACGCC	GCTGGGTCTG	GGAAGAAGTT	360
	GCGCAGCCGG	CGGCGGATGT	CCTGCGGCAG	CAGCGGCTCG	GTGGGGCTCT	GCATGCCGGC	420
	GAAGGTCAGT	GTTGCGGCCT	TGACCTTGAG	CATAGTGACG	ATGCTCGTCTG	CAAACCACAT	480
	GCAGAAGCTG	ATCAGCGTAT	ATGCGACAGC	AAGAGTCTCTG	AATACACGAG	AAAGGTCAAG	540
55	GTACGGCAGG	CCATTTTCGAA	ACCATGGTAT	CTTCAGCAGC	TGCGACCCTA	GCACAGACGC	600
	GATCGGCTT	ATCGGCGGCG	CGAGACTTAT	CGAGCACAA	TTGCTCGCCG	GGTACAGTTT	660

EP 0 866 129 A2

TGATGCGGTG AACAGCGCAC TGAAGT

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1636RP

	GATCTTCTTC	TGCTCGATGG	ACGAGCCAGT	TGTATCTTGG	ACTCTACGGA	TAACCCACAC	60
	CTTTTCCTTC	AGCGACAGGA	ACTTGGCATC	GGTGGGGTTA	TTCCGGGTATA	GATATAGCGC	120
5	TACGANCGCT	ACCACAAACG	TTAGGCTGCC	GATTATAATT	GACAGAATTT	TCCAATGTGA	180
	GATAGCTGGG	TTCTTTTATCA	GCAGGATCAA	GTAGGAAAGG	ACGCCCATTG	GTATGGATAC	240
	ACTGACCGTC	GCGATAACAA	AAATCGGGGC	GGTCGCTGCC	TTTTTCATTCT	CTGTTAAGAA	300
	CATCAGCATT	GTGTTGTTC	ATGCAGGAAT	GATAATAGCC	TCCGTGAAAC	CTAAGCAGAG	360
	ACGAAGAACA	TATACACCTT	TGTAATCCGT	CATTGCACAT	TGTACCATCA	TAATGATGCA	420
	CCATATCGTC	AGGAGGACGA	TAACAACGTT	CTTCAAAGGA	AACTTCTGGA	TAAACAGCAA	480
10	GTGATCTGT	CCGTAATAT	AGCCAACGTA	GAATAAGGTA	TTACATTGT	TGTAACGATT	540
	CAAGGACATG	TTTACATCTT	CAAAAAATCC	TAACAGAGTG	CTGTAGGACA	ATTGCGCCTT	600
	GTCTATGTAG	GTGATGAAAT	TAATGCTCGC	CGTCAGTCCC	ACGATGTACC	ACATAACCTT	660
	TCGTGCAAGC	TTCTTTTCCT	CGGCTTCTGT	GATAGGAGGG	ACATCCTTGT	CTTGCTTCAA	720

1636UP

	GATCCGCAAG	ATGACCGAGG	GTAAGGGCCA	CCTGCTTTTCG	CACCACCGCT	TAGTTTCCTT	60
	TGGAGGTGCA	GGTGGTCAAC	ATGCAGTTGC	AGTGGCACAC	TCATTGGGCA	TAGAAAACCGT	120
20	CCTCATGCA	AGGTACTCAG	CAATTTTATC	TGCGTATGGA	ATGCTTTTGG	CGGATGCGGT	180
	AAAAGAGGAG	CAAGTGCCAT	GCTCCATTTT	CTTGCAAGAT	ACATCTTCTA	AAGACCAGCT	240
	AAATGAAATA	TTCCACCAAT	TGATTACCAG	TACCTCAATT	AGCCTTCTTA	AGCAGGGATT	300
	GGCCGACGAT	CGGCTTGAAT	TCCGAGAGATA	CCTGAACTTA	CGTTATGAGG	GTACTGAAAC	360
	AAGTCTTATG	GTTCTACAAG	AAGGAGACTC	GTGGGATTTT	GTAAGAAAGG	TCACAAAAC	420
	CCACAAGCGT	GAGTTTGGCT	TTGTTTTCGC	CGAGAAGAGG	ATTTTAGTGG	ATGATGTCCG	480
25	TGTGCGTGCT	CTAAGTAAGT	CTATGGTGCG	GAACAGGAGC	CTGTTGATCA	GCAGTTATCC	540
	CAGGTCACTC	GTTCTACAGC	TGACCCCTCT	AAGGATGCAA	AGTTCTTTAA	GGACGTGTAT	600
	TTGCTCGATG	GGTTTATTAA	GACCACCTAT	TTACAGGTTA	GATAGTTTAC	CGGTAGGTAC	660
	CTGTATTGAA	GGACCTG					

1637RP

	GATCTGCTCA	TACTGAGCGG	CCAACCTGGTC	GTACTCCGTA	TGCAAAACAT	CTGTGGTTTC	60
	CTGGAAGTGC	GCCACCTTGA	GCGATATCTC	ATTAAACTTG	GTAACCAGCT	CTCCCAACTG	120
	ATGATTGACT	GCACTGGTTT	CCGTCAGCAG	GTCTTCCAGT	TCGCCAGTTC	TGGTGTCCAC	180
35	TTCCGCCACG	TATCCGCTGT	ACAATGTATA	CTCGTCGTTT	GCAGACCCCA	GAGCAGAAGC	240
	TCCGCCCCAC	TCTGGCGCCA	GCAGCTCAAT	TACCTGAGGT	TCAATCTCTG	TTTCAACCGT	300
	TGCCAACAGA	GTGTCTACTT	TTTGGCGTAA	CGAACTATCC	CCAAAAAGCG	GAGCGAGCTC	360
	ATCGTGAGAG	GAGGCACCGG	GATTTGCCGC	TACATCCTGT	ATGACTGAGT	TCTTCCGGCT	420
	CCTAGGCATG	GTGCAGTTGC	TGCCCTCAACG	GCTTCTTCTC	TGGTGCAGGT	CTGCAGTGGT	480
	TCGTGCTTAT	GCGCAAGCAG	AATACCATGT	TGAGCCGGCG	AAATCTCATC	ACGTGATCAT	540
40	CATCTTGCAA	CGGCTCGGAG	GACGCTGATG	CACTGTTCCA	TAGGCTTAGG	GCGCAATTAT	600
	ACGCTAGCTA	GTTATATTGA	TAATATGTAC	ATGATGCCTT	CGGCACGACA	GCGCACTCAG	660
	TGCTCGGCCG	CCGCGCCCGG	CTCCGGCAAG	CTCTTGCTCT	AACTTGGGCC	TTCTCGGCCT	720
	CCACGT						

1637UP

	GATCTTGCCG	TCCTTCTTGT	CCAGCTGTAG	GTCCGGATGA	GGGTACGCCT	CGCTCAGGTA	60
	CTCCAGCCGC	AGCTCGCCGC	TCTCCATGGA	CGCTTCCAGG	ATCGAAGGCG	CCGGCACAGC	120
	CTCGGAGGGG	AGGGGCGGCT	GCAGGAGGGG	CATCTCCTGT	CGCTCCTGGT	GCATCTGCAG	180
50	CGCCGACGCG	CTCGGCTCCA	GCGCCGGGTC	GAAGTACTTC	ACATTCTGTC	GGCCCGACTT	240
	GTACAGATTC	AGGATGCAGC	CCTTGAGCTG	CGCACGGTGC	AACCGGTACG	CAGTCGCGAC	300
	ATACTGGTAC	CCGCTCGTCC	CCCCTCCCGT	GAAGTGCGGC	CGCTCCGATC	CGATCGAAGA	360
	CAGTGACGCT	GTTGGCTGGT	GGCTGTATCG	CCCCTCGCGC	GCCGGCGCTG	CGCCCTGCGC	420
	CTTGTTCAAC	CACCCGAGCC	GAAACACAGT	CCCGTCGTAC	GTCTCCCCGT	TCAGCCCGCC	480
	TCCACGTGCG	ACCGGCGAGC	CCGCCGGCTG	CGAGCAGGGC	GACACCTGCT	CCTCGCAGCG	540
55	CGCACCCGCC	TTCATGTCTT	CACATGTCTG	CGTCCGCTTG	TGCGCTTGCC	CCGTCCGGCAC	600
	CTGCTTCTGCT	ATCGGCGCTG	GTGGCTGCTG	CTGCTGCTGC	TGCGTGTGCT	GTTGCGGTTT	660

GCCTGTTGGC CTTGTTGTGT GTA

1638RP

5	GATCCTGTGCG	CTGGAAATGTT	CGCGGACGAG	AACAGACAAC	CGTCGGGGGGC	GGGCGGATCT	60
	GCCCGAAGCT	GTCCGAAGGA	GACCAAGAAG	GAAATTGTAA	AGCTGCAGCC	AGCGCCGATT	120
	CCACAGAACT	CTCCGTGGAA	ACCGGTGCAG	ATGGGGACGG	GGGCGGACG	GGCCACCGAG	180
	GACGGCCGCT	GGCCTTCTGC	GCACGAGGTT	GCGACAAAGC	TTGCTGACGA	CGGCAGCGGG	240
	CGGGGGCGCT	CGCAACCGAT	GGTGACGACC	GGGAAGGAGA	AGTGGGTGCC	AATGAAGCCG	300
10	GCCATGCTTG	TGCCCGGGCA	GGGCTTGGC	AAGATGCAAC	GCAAGAAGAA	AAACGGGCAG	360
	GCGGTCAACG	GCGGTGCCGC	GAAAGCGAAG	ACCGGAAACA	AGGCACCCCC	CAGCCAGCAA	420
	AAGAGAGCTC	CAGACTCCCA	CAGGAAGGCG	CATGACGAGG	CGAGCGCCGC	GAGCGCCACG	480
	CCATCTGCAC	CGGAGGAGCA	CGTGGAACAG	CGCGAGCTCG	GCGAGCAGCA	GCAGGTCCCC	540
	GAGGCCGCAG	AACAGGGTGC	GGAACACCCG	ACACAGCATA	TGGCGCAGAT	GCAGCCCCAG	600
15	CCCAGAAGAC	GCTTCTACGG	CGGCAGGCAG	CAGCACTCCG	CTGACGGACA	CAAGCCAGTT	660
	TGTGT						

1638UP

20	GATCTGAGAA	CTACTGTGTG	TGGCTAGCG	CAAACCTTATC	AGAATTCCAT	CAACTCACCG	60
	AACCATAGCA	CATCTACGTC	ACCTCCCCCT	ACCGCTACAG	ATACCGGGAA	TGATCAATTT	120
	TTGCGTGTTC	ATGCTGTAAAC	CATATCGCAT	GATGACAAGT	ACCTAATATG	CATGAGCAAT	180
	GACACGTACA	TTGATGTCTA	CGACATGTCA	GAATTATCGC	CTGATTGTGA	ACGCTCGCAC	240
	GAAATTFAGGA	CTCCTAGACT	ATCTAGACTT	AATATTGGGA	AGCAGATGAT	GTCCATGAGC	300
	GGGCCAGTTG	GACCCGATGA	TTCGCTTTTA	CTAATCAGTG	TACAGCCACA	CGAGCTTCAG	360
25	CTATGGGATT	TCAAAAAGGCA	GATTATGGTC	CAAAGATATG	TAGGACAGCG	GCAGGTGGCA	420
	TACATCATCC	GTTTCGTGCTT	TGGGTATGGG	GACAACCTAG	TTGCTGGAGG	TTCGGAAGAC	480
	GGGAAGATAT	ACATTTGGGA	TAGATATTAT	GGTAATATTA	TTGGCGTTCT	ATCTGGGCAT	540
	AACATGGAGA	GACCCGACGA	CTCCAGAAAT	AAAAACTTCC	CAATGACCAA	AGTTTGCAAT	600
	ACTGTAGCAT	GGAAATCCCGT	CAATTCAAGA	CTATTTGCCT	CTGGAGGAGA	TGACGGTCTG	660
	GTGAAGATAT	GGAAGGTTGA	CCCTAATTGA	TGAATCCTAT	AGCATGACGT	TATTTGTCTA	720
30	TAGAACTTCG	AGAAATCCCTG	CCGATCTGTT	GTTTCCATAAA	TTGTA		

1639RP

35	GATCCATCTG	ACTATTGTTT	CACGCGATTG	GGGGACCAAC	TGTGCAGTCA	GGCCCAGGAA	60
	CCGGGAGAAA	TAAGCCTTGA	ACGAGCGCTG	GTGATATTA	CAGTTGTGCG	CACCTTGACA	120
	TCCTGCCCTCG	TACAGGGTGT	CGTTGCTGAG	GAAGATTCTG	GCGCTGTCCA	AGAAACGCAG	180
	TGTTGCGCTGG	TGCCACAGCT	CGTCTGGGT	ATGGTTGTAG	ATGAAGGCAC	AGCCTGCCAT	240
	GATCAGCCCA	TGGTTGTAAAG	TCCACTGCAG	CTTATTTAAG	TTGGTACAGT	TGTCGTTGAT	300
	GTCTGTACCG	CGTTAGACGA	CGTGCAGTT	TGGCTGCACA	ATCGAGATCA	GCCCAACGCC	360
40	ATACATCCAG	TCGTAAACCC	GTTCCGCCCA	CTCTAAGTAT	GTGGCATTCC	CGGTGTAACG	420
	CGTTAAATCGT	GCCGCCATGT	GGAACAGCGC	ACCGTTGGAA	ACGGAGTTT	TGTAGTGGTA	480
	CCCGTCGTTT	CAGCGGAAAA	TCTGCCATCT	GAGCCCCCGG	TTGCACGTCT	CCATATCCCA	540
	GCGCAGGGCC	ATGGTATTTAA	ACACCGCCTG	CGCCAGCGCC	AGCCATTGCG	GCTGGTCCGC	600
	GGGCGGGTTC	GGGAAGTTGC	GCTCCGCGGC	AGCCATCACC	GCCATCCCCC	AGAAAAAA	

1639UP

45	GATCGAGCGG	GTGAGGGACA	CGGTGCACAT	AACGACTGCG	GACGGTGCCT	GCTATGTTTC	60
	CAAGTGCGCG	ATTGTGACCG	TGCCGCAAAG	CGTGCTGGAG	CTGTCTCTGA	AACCAGAGCG	120
	GGTGCCCGGG	CGCATTGAGT	TTCGCCCCCC	CCTCAACGAC	AACATCACGT	CTGCGTTTGA	180
50	GCGAGCTCAC	TACGCCCTCG	TGGGCAAGAT	CTTCTTTGAG	TTTGACAAGT	GCACCTGGGA	240
	CACGCAGCGC	CCGCGGGTTG	CTATCGCAGC	CAAAGTTCCC	GACGACTTTA	GTGCGCAGGT	300
	CCGTAAAGGCC	CAAGATTTGC	AGGAGCTGCT	GCGATCCGCC	AGTGCTCAGA	CTGAGGTGAA	360
	GCTGGGACAA	GACTGCTTTG	ACTTTCCACA	AGAGTTTCAG	AACATGGTTG	CGCTGGCAGG	420
	GATACCGACA	CTTATTGCGT	TCACGCAGAC	ACCTCTTACT	GAGCACGTCG	AGCGCTTATC	480
	AAAGCAAGAG	ATTGTGGAAT	ACTTCAAACC	CGCAATTGTT	GTTGCACTAC	GTGCACTGGG	540
55	GTCCAAAGGAG	GAGTGCCCTCT	TCCAGCTCGG	AAACACGCAA	CCGCAAGACG	ATAGTCATCC	600
	AGGCCCAATC	CTAAAGAACG	TGATCTTCAA	TCCGTGGTCA	CAGGATACGT	ATTCTCGTGG	660
	CTCATACACC	GGTAGTCACG	TGGACGACGA	CCAGCTGCCC	TTGAACGTGG	CCCTCAACAA	720
	CGGCGGCGAT						

1640RP

	GATCAAGCCG	AGCACGCTGA	CCTTGGCTCC	CCGACGCAAC	ATCGGGTTGA	CGGGCTCCCC	60
	CGCCGTGCGC	TCCTCGACGC	CATCGCCAG	CTTGGCACTG	GCGGCGTCGC	GCGCCGCGGC	120
5	GAGGCGCGCC	ATGTCCATGA	AGACCGGGAT	GTACGAGCCC	TCCGTGATGG	TGTATATAGT	180
	GTTACAGCAG	AGCATCAAGC	AGTACAGCAC	CGACATCAAA	ATGAGCGCGC	CGTAGGTCTT	240
	GCTACCCTGG	CTGACAAACG	GCGTGGCAAG	TGCGCCGTAC	ATTACAATCG	ACAGCGTCAT	300
	GAGCCACTTG	CGGTAGTTTG	AAAAGTCCGC	CAAACCCATG	AGCACAAATCG	CAATGAGGCC	360
	CTCGATGGAC	GTGTACAACG	CCCGCATATA	AAGCACATAT	GCCGTGAACT	GCACGTCCCT	420
	TCCGCCACG	TAGATGTAGC	AGTCATCGCC	GCGCGGGCGG	CAGTGC GCGG	CGGGGTGCCC	480
10	CTTGGGGTGC	CCGAGCTCGT	GTGCGATGGT	CTGTAACGAC	GCAGGCACAA	AAGAACGCAT	540
	CATCAAGTAG	GTGCGCCCGG	TCGAAAAGCA	CACAAGGAGC	CATGCAGGAA	ATACCCACCG	600
	GCCCCGCCAC	CGCGCCAGCA	CTCCTCGTCG	GCGCGCTGCC	CGCCCACTAG	CGGCTGCTGC	660
	TCGTCCAGCG	TCACTGACAC	CTGCATGTCA	GCGCCCTTGC	TT		

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1640UP

	GATCAACGAG	CTGGCGCAGC	TGCAGCTGGA	CGATGCGGAG	GAAGGCCTGG	AAGAGGCCGG	60
	TGGTGCGCAG	GAGGGCGCGG	CGCTGTGGGC	GCAATTGGAC	GGTGACGACG	ACCTGAAGGA	120
	GTACGACTTG	GAGCACTACG	ACGAGGAGGA	TCCGGGCGCG	GGTGCAGAGG	TGACGATGTT	180
20	CCCGGGGCTC	TCGGGCGAGG	CGCGCTTCCA	CGAGGGTGAG	GAGGGGCAGG	ACGCGTACCT	240
	GAGCTTGCCA	ACCGTAGAGG	AGGAGCAGGA	GGAGCGGGCG	GAGCTGCAGG	TGTACCCGAC	300
	AGACAACCTG	GTGCTGGCAA	CGCGGACGGA	AGACGACATT	TCGTACCTGG	ACGTGTACGT	360
	GTACGACGAC	GGCGCGGGGT	TCCACGACGA	GGCGGTGCCG	CAGGAGGCCG	GGGACGCGCA	420
	GGACCCCGAC	GTGGCGCGCG	GGCTGATACG	GGACGCGTCG	TTGTACGTGC	ACCACGACCT	480
	GATGTTGCCG	GCAATCCCGC	TGTGCGTGGA	GTGGGTGAAC	TACCGGCCCG	GGTCGAACTC	540
25	TGACGCGCCG	GCAAACCTTG	CGGCGGTCCG	CACCTTCGAC	CCCACGATCG	AGCTGTGGAA	600
	CCTGGACTGT	GTGGACCGCG	CGTCCCCGAC	ATGATCCTCG	GCGAGCCCGC	GGACTCTGCG	660
	ACCGCGTCCA	AGAAGTCGAA	GAAGAAGAAG	AAGGGC			

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1642RP

	GATCGCGGTT	TCGGAACGGC	TTGCTTCGCA	CAAAACACAG	GGTTCGAAGT	TACATACTCT	60
	TCAAGAAATT	GACGAGGCCT	TGAAAGCGCT	GGAGCTACGC	GGGTCAGGGA	NTGATGGTAA	120
5	TGCCTCATAT	AAGTGCAACT	GCCAGGCCAC	TATGCACTCT	CTTTTGTAGC	TAGCCCCAAA	180
	TTGCTTGAAC	TGTGGCAAAA	TTATATGTTG	CCGAGAAGGT	CTTCATATGG	ATTCTCTGCAG	240
	TTATTGTGGG	ACGCTGCTGA	TACCGAAGCA	GCAGCAGCGG	GATATAGAGA	AGGTGTTGCA	300
	GCGCGAACGC	GAATTGGTAA	AAGCCAAGAG	ACAAGAGACC	GGCTCGACTG	GCAAGAAGAA	360
	GGAAAAGGTC	TTTAAGATTT	CGAACGCAAA	GGGGAGAAAT	ATGTTTCAGTG	AGCAAGAGAG	420
	GCTATTTCGAC	AAACTTGAACA	GGCAGCGGGA	CGTGAAATGA	AACGCAACCA	GGTACTTGGG	480
10	GCAGAGGACT	GTCTCAGGAG	GAGGACTCGA	TTCTGAAGGC	TGAGGAAGTC	GATCCGGAAC	540
	TAAGGGCGGC	CAGGCGCGCT	TGGAGAATCT	ATTGCACTTT	CAAGACACTA	GCGAAGAGAG	600
	GACTAAAATA	ATAGATACTG	CCAGTGACTA	CAGTATGTCA	AACGACGCAG	GAATTTGGGG	660
	GTCGGCATAT	GAGAAGGC					

1642UP

	GATCTCGTAC	CCGGTACGGT	GCGCGAGCTT	GCCGCCGGCA	GCCGCGCGCT	GCCCTGCTTC	60
	TCCGCCGACA	GCCCGCCAAA	TACCGTGTTC	TACAAGCTGC	ATGGATCGCT	GCCACAGGCC	120
	GTGCGTGTTC	CGACGCTGCG	GCACTTCTCC	TCAGACGCTG	CGGCAACCCG	GGGGAAGCAC	180
20	CTGGTCTTGT	TTTGTACCGA	CGTCGCCTCG	CGTGGCTTGG	ACCTGCCGCG	TGTCAGCACT	240
	GTCATCGAGA	TGGACCCGCC	CTTCGCGGTC	GAGGACCATC	TGCATCGTAT	CGGGCGGACC	300
	GCGCGTGCCG	GTGTGGCTGG	CGAGTCGTTG	CTCTTCCTGC	TGCCCGGCGA	GGAAGAGGGC	360
	TACATGGAAC	ACATCCGTGC	CCACCACCCT	CGTGGCTGGG	AGCTGCTTCG	CTACGATCGA	420
	GACCTACTGG	CGCCGGCCCT	CGCGGCCCTT	GTGCGCCGCT	CCGACCGTCC	GACCACCGCA	480
	ACGGACGCCG	CCTGGGACAG	CAACGCGACA	ACTTGGCACC	TCAACGTCCA	GCGCCGTGTT	540
25	GCTCGAAGAC	CCTCCGCGAA	GGATCTTTGCC	ATCAAGGGCT	ACACCAGCCA	TATCCGCGCA	600
	TACGCAACCC	ACATCTCTCA	GGAAAAAGCG	CTTCTTTCAAC	GTTTCGCTGTC	TGCATCTTGG	660
	CCACCTGGCG	AAAGCCTTTG	GACTTTCGCA	GCGCCCCAAA	GCA		

1643RP

	GATCGGAACA	AGGAGCAGCA	GTCCATCCAG	CTGTGCGCAG	AGCAGCAGGG	CACACTGCAG	60
	GACAGGAAGC	CGACATACCA	AGTCATGTCT	CTCCAGAGCG	ACACGACGGT	GACCAAGTTC	120
	AAGGTCGACG	ACTCCATCAG	CAAGCGTTTC	GAGTTTCATGA	ACAAGCCGAA	GGCCAAGCGC	180
	GCGACCGCGC	CGCGGCAGGC	GGCGACCAGC	AGCCCTGCAA	TGGCCTCGGG	CGCCGGCAAG	240
35	CGCGTGACACA	AGCCCAAGGT	GCAGCAGGGC	CGCGGCGGGC	CCGCGCAGGC	CGATTGCGCG	300
	AAGCAGAGTA	ATACGCCCCAG	GGGACTTTCGG	TGCGCTCGGA	GAAGACCAAT	CGCTGCAGGA	360
	ATTCTGTTCG	CAGTCCGAGA	TTAAGAGCGA	TCTGTTTCGAA	CTGGAGGAGC	AGAACGACGA	420
	GAGCGCAAGC	TCCAACAAGG	AGAACGTACC	CCCGAGCTCC	TGTCGGTGT	TCCAGCAGCA	480
	GCTTCTGCCC	ACAGATATGG	ACGACTTTTTC	CAACCTCGAC	CTCGACCATA	TGAAGAACAC	540
	CGATGATGAG	TGGTTCCAGG	GCCTGTTTCGG	CACCTCTCGG	GACGCGACCA	CCTGCAACAC	600
40	CATGCCCATC	GAGGAC					

1643UP

	GATCGTTGCA	AAGAAGCTAT	TACGGTGTCT	ACACGTTTCGA	GAACAGCGCC	CGATGCCATA	60
45	TCCCACACCG	CCGCTGTCAA	ACGCGTCTCT	GGGCACGAGC	GCTGACGGCG	GGAGCGCCGC	120
	AGGGCTGGCG	CAGCAGGCGC	CCGCAAAATC	GTACTACCCG	CTGGTGCCGG	ACGGCGCACA	180
	GCTCACGCCG	CCACTGTGTC	CCGTGTCCAC	GGCCGGCGAT	GACGCCGGCC	TCTACCGCTA	240
	CCACAAGCAG	ATCAGCAAGT	CGTTCCAGGA	CGACCTGATC	TACTGCCCGC	GCGCGCTGCT	300
	GAGCAAAGTC	GAGCTGACGC	AGTGCTACCA	GCTGGACATG	CTGCTGCTGA	TGGAGCAGCA	360
	GCAGCAGGTC	CAGCCGAGTG	TCAAGTTCAA	CCCATATACG	TCGCAGAGCT	TCAACCCCGC	420
50	GGGCCCCGCA	TCGCCCCGCT	CCTAGGGCGG	CGGGGCCGCC	CGGGACCATT	TAGTTTCGACN	480
	GAATCNCAT	GTCAAGACTG	ACGCTTGCTC	GCATCCGGGT	TTATGTTTTTA	TTCCAGTT	

1644RP

	GATCCTTTGC	AAATTCGTCC	ATAOGAATGT	AAACGGACCT	GCCCTCCAC	CTCTTGGTAT	60
	TGCAAAACAGG	CATCTTGAGT	TCGTTTGGCC	ATTCCATCTT	TATATGCTGT	TCTTCATCGC	120
5	AAGGCACATT	TTCTGCTTCT	TCGGGCTTCT	CAAAAACAAC	CTTATGCACT	CTCTCAGTAA	180
	TATACACAGG	GTACGGGGTC	GCCGTCCCTG	AACATTAGGA	AGAACCAGCC	AAATGGGCTT	240
	GTGCTTGGCG	ACTGGCCGGA	CTTCTGCACK	AAATCCCACC	TCAAGTATAT	GACCATCAAG	300
	TCCCTGAACC	GCGTGCTAAA	CTGCTGGTAT	GTTGTGTCTGA	TATCTAGCGG	ACCGGGAGCT	360
	AGCGAATCGG	TATGCGGCAC	TTCCAATAGG	TAATCGCCCC	GCGTTTGGAA	CGGATGGTAT	420
	ACCCTAGTAA	CTTTGCCCTGC	AAACTCAATA	TGGGGCTTGG	GCTTTTTCCT	GTGGGCTTGG	480
10	TTTGTAATTG	GTATCAATGT	CTGCGGAGAT	GAGATGGAGC	TGTCGCTCGA	AGATATGTCC	540
	TTTAGCAGGT	TATCGTCTTC					

1645RP

	GATCTTGGAA	GAGGAGGACT	ATTCAAGTAA	AATGGCACGG	CGGGAAGATA	AGATGGAAGA	60
	GGAGTGGATA	CGAAAGTACG	AGCGTGAGAA	GAAGAAGAGA	AAGAGAGGCG	CATAATCCCC	120
	AGTGTAATAA	ATCAATTCCG	CCGGTTCGCT	GCGCTGTAGC	ATAATAATAT	GTACGATAGT	180
	GGTCAGATAA	GGTATTTCAA	AAGTTAGGCA	ACCCATGAAA	CATCAAACCT	TTCAATGCAA	240
	TGATATGTAA	GTTCATATA	TTACGAGCTG	TGAAATAGAG	AACTCAAAT	GAATACTTTT	300
20	ACCACACCAT	AACAAACGCA	CAATGTTACG	AGAATGAAGA	CGATAATGCA	GCTTGAATAG	360
	TGCCACCATG	GCGCCATATG	GTACCTACTG	AACAGCAGAA	GCAAGCTAAA	CGAGCTCAGC	420
	ATGAGGGACA	CCACTAGAGA	TACCAGGATC	AACGCTGTGA	TATAATTACT	ACCTTCAAAC	480
	TCAGTCTGGT	CATTTCCAAG	AGCGCTGAAC	AATGAAAACA	TGATTCCCAC	AGTGGTACCT	540
	GTGGTTATGC	AAGATACGAG	CAGGGTCGTC	AGGTAAAACA	ATGAGACCAC	CTCATCGTGC	600
	TTGTATCCAT	ATAGGACATC	AAGTTCATCG	TAACATACTA	GCGCAGCCTC	GTCATCCAG	660
25	TTTGAACTT	GCAGTTGGCT	ACCACTCCCC	GCAACGTGCT	TTGCAC		

1645UP

	GATCAGCGGC	GGCTGCGCGC	GCTGTTGCCG	TAGCGCTGCA	GCAAGCTCGC	GCGCGCCGCC	60
	GCGCTCTGCG	CCTGGCCCTC	CGGCTGCCGC	GCACCGCGCT	CGGGCGTCTG	CCGCCCAAGC	120
	TCCAGCCGCG	TCGGGTTCGC	ACTGATCACG	TGATCCACCG	TGCTGCCGTC	CCGGCCGGCC	180
	CTGTCCGGCG	CCGCCGGCGC	CTCGCCCGCC	GCGCCATCGC	CGCGGTACAC	ACGGCTCTTC	240
	GGATCGTACC	GCGTCTCCTC	GCCGCGCACG	TCGTGAGGT	ACCGCGCGCG	GTCATGCCGC	300
	GGCCGGATCG	CAGGCGCCCC	CACGCCCCGC	CGCGCCGCCC	GCGCGTCCAG	TCCCAACTTG	360
	TACCGTTCCA	CTGTGCCGCG	CGCGTCCCTC	GCCGTGCCG	GCGGCTCCGC	CGCCGCGGCC	420
35	GCCACTGCCG	GCGCCACCGG	CCCCTCGAAC	CCGTACCATC	GGTCCCGCTT	GGCCTCAAAG	480
	CTCAGCGCAT	TCTCGTCCCG	GACCTGAAAC	GCGCGCTCGC	CACCATCGCC	CCGCGCCTGT	540
	TTGCGCGGCC	GGAGCAGGCA	GTCGCGCCGG	TCATGATTGG	CGCCGCAGTT	TCGTGCACCG	600
	CCCGCGTCCG	CGCCCCCGCC	CGCGCGCGCG	TGCCCGCCAC	AAAACGGTCA	CTTATTACCG	660
	AACCTGCTGA	GCCACCGAGA	AGTCTTGAGC	GCCCTCGCCG	GGCTC		
40							

1646RP

	GATCGAGAAC	CGCATGGACG	ACAAGCCCAA	CGTGGTGATC	CTGGGGTCCG	GCTGGGGTGC	60
	GATTTCTGTT	CTGAAGCACA	TCGACGCGCG	GAAGTACAAC	GTGACGGTGG	TGTCGCCACG	120
45	GAACACTTTC	CTGTTACAGC	CGCTGCTGCC	CTCGACGCCC	GTGGGCACGG	TGGACGAGAA	180
	GTCGATCATC	GAGCCGGTGG	TGAACTTTGC	GCTCAAGAAG	AAGGGTAACG	TGTCTTACTA	240
	CGAGGCGGAG	GCGACGTGCA	TCAACCCGCA	GCGCAACACG	GTGACGATCA	AGTCGGTGTG	300
	GACGGTAGCA	CAGCTGTCCG	ACCCGGACAA	CCACCTGGGG	CTGACGCAGC	AGGACTCCGC	360
	GGAGCTGAAG	TACGACTACC	TGGTGTCTGC	GGTGGGCGCG	GAGCCCAACA	CGTTCCGGCAT	420
	TCCGGGCGTG	GAGGAGCACG	GCAACTTTT	GAAGGAGATC	CCACACTCGT	TCGAGATCAG	480
50	AAAGCGCTTC	CTGTGCAACG	TCGAGAAAGG	GAACCTGTTG	CCCAAGGGCG	ACCCCGAGAG	540
	AAAGCGTCTG	CTGACCATCG	TGGTCGTGGG	CGGTGGTCTC	ACCGGTGTGG	AGACCGCGGG	600
	TGAGTCCAGG	ACTACGTGCA	CCAGGACCTG	AAGAGATTCA	TGCCCTCCAT	CGCTGAGGAG	660
	GTGCAGATCC	ACCTGGTGGA	GGCCTTGCCC	AACGTGCTGA	ACATGT		
55							

1646UP

	GATCAAATGG	GTTAGCCCGT	CTCCAACGAG	CCCTGCAACA	TAGTGGCAGT	AGCGGTGCGTA	60
	GTCCTGGATC	GTCTCCAACC	CGCTCAAATT	AAACTTCTCG	TCCAGAATGT	AGTCTGCCAT	120
5	GCCGTTGCCG	ATCTTGTGTG	TGATGTCTGC	AATCACCTGC	TGGTACTCGG	GCTTCAGCTT	180
	GTGGAACCTG	GCTAGAATCG	TGCTGAACTC	CACCAGCACG	TCACGGTCCT	TCTCCGTCTT	240
	CGCGTTGCCG	TCGAAACTCC	ACGTATCCAG	CTTCAGTTTC	TGGTCGAACT	CCCGGAGTAG	300
	CGGCACCTTT	ACCTTGGGAC	TGATCGTCAT	ATCGTCTTCA	ACAGTATCCA	GCGCACGCAG	360
	AATCAGGTAG	AACAGCATCA	CCGCGTTGCG	CAGCTCGGGA	TGTAGCTCCA	TTATCACGGC	420
	CGCAAAAGAC	TCGAAGTCCG	CTGTAGCAGC	TGGTAGCACC	GCTTGAGCTC	TGCAGAGCCC	480
10	TGCGTGTCTG	CCGCAGGATA	AAGCGGTTCC	CTCAGAAATT	TGAGCTTCAG	AGCTGCCTTC	540
	AGCTCCAGTG	GGTGTGTGAA	TAATTGAACA	ACCTTCCCCA	TGGTCACGAT	TCGATTAAGT	600
	AATTGCCAAT	TATGTCAAGC	GCCTGTCACT	TGGTGATGTC	GCGCTTGCTT	GTACAGG	

1647RP

	GATCCAGCTA	GATAGCGTGC	CAATTGCTGA	TAAATCCTGC	CAGAATGCGA	TAACGCCTCT	60
	CTGAAACGCG	CAACGCCTCC	GGAGCGCCAG	GAGCTGTGCG	GAGATGCGAG	GCGTCTGGAC	120
	TCCATGCACA	ACTAATATTG	AATTCAGTAT	CCCGCAGTAG	GCGGGTACAT	AACTGCTTAC	180
	GTACTCCAC	TACGACACTG	CGCCCGCAC	GCTGCACGTG	CAGTGCGGCT	TACAAAGACC	240
20	AAGTCCTTGG	CAACACCTGG	ATATGGTATC	CATCGGGGTC	TCTGAGGACG	GCGAGATTCT	300
	TGATAGACCC	CTTGTTGTAG	CGCAACTCCC	ACTCCAGGTC	CGGGTACGTC	TCCTCGATGT	360
	CAGCGCAAAG	AGGCGCAGGG	TCACTGAGCG	ACACACCCAT	GTGGCTGTAC	CCCGTGGGCT	420
	CTGCGTTCCC	GTTGTGATAC	GAGAAGTCGG	CGTCATCCTC	GGTCCCCCAA	TTGTGCGTCA	480
	GCTCCAGAAT	GCTCTCGCGC	TTCAACCGCT	CGTCCGCTGC	CGGATACCCC	AGGAAGTAGA	540
	GGGTGAATTT	CGCATTTGCG	TGCTCGCTCA	CCTCCAGTAG	CGACATACCT	AGCACATTCT	600
25	GGTAGAACTC	CAGCGACTTC	GTTGCGTCCT	TCACACGTAG	CATCGTGTGG	TTAAACTTGG	660
	GCCCCAGGTC	CACTGGCTCC	GCGTCCGACA	AGTTGTACTG	TATCAACTCA	ATCCAGTATC	720
	CGTCCGGG						

1647UP

	GATCCGAGCA	CGGTGCGGGT	GCAACAGAGG	AAATATATGG	CACTACAGAC	AGTGACACAGA	60
	TGCAGGAGCT	GCGCCGCCTG	GCGCGGCAGC	GCTATCTGGA	CCGGCGGGAG	AGGGAAAAGC	120
	TAGACTGGGC	AATACGGGAC	CTTGCAATTGT	TAGAAGAAGA	CGTAAAGAAG	TACGGATTGGG	180
	ACAAGCTGAC	GGAAACGGGAG	CGAAGAGAGA	TTGGGACCAA	GCGGCAGCTC	GTGCAAAATTG	240
35	TGCGCGAGCG	CGATGCGGGC	GCGGCGGGCG	CGGAGCGTCC	ATTCCATATG	CCCGGCGAGA	300
	CCGTTGTGGA	GCTTACTGCG	CGGCAGGAGA	AGAGCTGGGA	GGAGCAGCAG	GTGCAAAAGG	360
	CGGTGCGCGC	GGAGGGGCGC	TCCGACATAA	TTGAGGTGGA	GGGCTCTGAA	CAGTACGAGT	420
	TTGTTCTGGA	CTCGCGGTCC	GTTGTGCGCT	TTACAGAGGA	AGAGACGCTG	GCTCCCGGCG	480
	AGCGTGTCTG	GAAGCAGCTC	GAACAGAAGC	TCGAGAAGGA	AATTAAGCGC	GTGGCGTCTGA	540
	TTCAAGAAAC	TAGGAGGCG	CTTCTGTGT	ATGCGTACCG	CGACGAGCTT	CTGAAGGCGG	600
40	TGCGCGACCA	CCAGT					

1648RP

	GATCCAGCTC	ATGCAGTGGC	CGATTCCAGC	CCTGCCTGTC	GTTTAAAGTC	TTGAAGTAGT	60
45	TGGTGCTGAA	ATGCTTGTC	AATTTGTACA	GGTATCGTTT	CGAAGATTTC	GAGAATAGTC	120
	CTTCCACCAC	TTTCAATGGG	TTCTCCTCGA	ACTTGTGCGG	GAATGAATTC	TCCAGCTTGG	180
	AGAATGCATG	CTGTGAAGAG	TATATACGAG	ACCCAGCTTT	CGCCACGAAT	TTGATGAGCT	240
	GATTGAAGTC	GTTGCGCATG	TGCTCTCCG	GTATGAATCG	TGGCACAGTC	AGCGTCAAAG	300
	CTCGCTGCGT	CATAGGACGG	TATGGTCCCG	GTGGGTACTC	GTGGACATCG	AAGTTATCAA	360
	GCAGATAGAA	ATCCTTGATT	TTGCCCTTGT	CTGCGAGAGA	CCGCAGGTAC	GCCACGAAAA	420
50	GGTGGTACAG	CGCGCTTCCC	CGGTTACGGT	AGATCTTGTT	CAGAATAAGT	TCGTGCTCGT	480
	TGCCCTTCATC	GTTGGCATCC	TTGTACTCTT	CTACCGCCTT	GCAAGAGGGG	AAACACACCT	540
	GGCCCGCGGT	GAATATTAAG	TCCATCTGCG	TCGTCTTCTC	CACCAACAGG	TCCGTACGCC	600
	CAACGATCGT	CACCAGGATT	TCCAGAAAAA	CGTAAGTCGT	GCACATGT		

1648UP

	GATCTAGCAG	GTGTTGAACA	GATAATGGAA	TGGCTCTCCT	ATATTCCAGC	TAAACGTAAT	60
	ATGCCCGTAC	CTATACTGCA	GTCAGAGGAC	AACTGGGATA	GGGATGTTGA	ATACACACCA	120
5	ACACTTCACA	GCCTTATGAT	GTACGCTGGA	TGATTGAAAG	CCGCCAAGGA	CCTGATGGAT	180
	TTGAATATGG	TCTGTTTGAC	AAGGGTTCCT	TCCAGGAAAC	ATTATCAGGC	TGGGCGAGAG	240
	GCGTCGTTGT	AGGCAGAGCT	CGCATGGGTG	GTATCCCGCT	CGGTGTTATT	GCCGTTGACA	300
	CTCGTACAAT	TGAAACTGTG	ATCCCTGCCG	ATCCGGCAAA	CCCTGCATCC	ACAGAAACTT	360
	TGATTACAGGA	GGCAGGCTTA	GTTTGGTATC	CTAACTCAGC	ATTTAAAACT	GCGCAGGCCA	420
	TAGCTGATTT	CAACCACGGA	GAACAAC TTC	CACTCATGAT	ATTAGCAAAC	TGGAGAGGGT	480
10	TTTCTGGTGG	TCAAAGAGAT	ATGTTCAATG	AGGTCTTGAA	ATATGGCTCC	TTCATTGTTG	540
	ATGCTCTAGT	GGATTATAAA	CAGCCTGTAT	TCGTATACAT	ACCTCCAACA	GGTGAGTTGA	600
	GAGGTGGTTC	CTGGGTTGTG	GTGGATCCTA	CAATTAACTC	TGACCAGATG	GAGATGTATG	660
	CTGATTCCGA	CTCGCGGGCA	GGTGTGCTAG	AACCTGCTGG	TATGGTTGGT	ATAAA	

1649RP

	GATCAAACGC	AAAAC TGTGA	CGCAGAAAAA	AGTTTTCGCTG	ACAGACGACA	TGCTCGCAGG	60
	GCACCAGCGG	GTGGGCAACG	GAGCGGTGCG	GTTCCTCAGCG	ATGGACCTCG	GGGCGACCAC	120
	GAATCTTTTG	CTAAACAACA	CTATCAACAA	GACCAAGTTC	AGTCAGCTAA	AAAAACGCGT	180
20	AGATAGTATC	GAACTGCATA	ACCAGCAGCT	GCGCGCAGAG	AACAATAGTT	TGAAAAATCGA	240
	ATTCCAAAAG	ATGAGTTCCA	GATATAACTC	CATGGTGGAG	AACCTCGTGT	CTCTTAAAAA	300
	CTACAATAAT	TCCCTCGTTG	AGAACTTCAA	TCTGCTGGTA	TCCACGCTGG	CGCAACAGGGG	360
	CCTGAAGGTT	CCCCATCCAT	TAAACCTCGG	CAACTATGCA	TCTTCACAGG	TTGCCAAAAA	420
	TTTCATCTGCT	TCCGACGTTT	AACCGCATGT	ATCGCCGTTG	GGTACTGTAG	CACCTACGAA	480
	CATACCCTTG	GCGCAGGCTA	CCCCGTCGAA	AGAAGAGGCC	AATCCTCCTA	CAAGCCTGCG	540
25	CCCAGGCTTC	CATGTTCTGC	TGGTAGAAGA	ATGATTCCGGT	TTGTATCCAA	CTATGTTCCA	600
	AATTCCTGAG	AAAATATGGC	TGTTCCGGTG	AAGTCGTAAC	GGACGGCCTA	TCTGCTATTG	660
	AAACAGTAGA	GAAATTCCAG	TACGACCTCG	TTCTGATGGA	TATCGTGATG	CCCA	

1649UP

	GATCGCTGGC	GCGGGCAGCC	ACATGCGGGC	GCATTTGACG	TTCTACCACA	TGCAATCTAT	60
	GGCGGCTGTG	CGCGCGTTGC	GCCCCGAGGG	GAAGTACGGG	CTGCGCGAGC	CGCCAGCGGA	120
	GGCACCACCG	CCGGCGTTGC	CCGACGTGGA	TGTGGTGTCTG	ATGCCCGGTC	TAGGGTTCTG	180
	CGCCGATACC	GGCGCGCGCC	TCCGACGCGG	GGCAGGTTAC	TACGACAACT	ATGTAAGCCG	240
35	TACGCAGCAG	CTGCACGGCA	GGAGACCGCT	GCTGGTTGGG	CTGGCGCTCA	GCCAGCAGCT	300
	GATGTTGCAC	GTCCCGCTAG	AGCCGCACGA	CCAGTGTCTG	GACGCGGTGG	CCTGCGGCGA	360
	CGGACAGTTG	AGGTGGGCGC	ANCGCGCGCC	CGGGGAGATA	GTTGATATAT	AAGTGTATCT	420
	AGCCTGTAGT	GAAGCTCCCT	TTCCGACGCA	CGAATGTCCG	CGTGCCGCTC	TGGTTGATGA	480
	TCTCGGCCTC	CAGACGGACG	TTGTTGCCGT	GGTCTCTCAG	GCGGGTGGTG	CGGACCACAA	540
	CGAACTGGTT	CGCCAGGGTC	GGGAAACAAT	ACAAGATCTT	GATGTGCTCG	GTACCTCCT	600
40	AATCGGTGCC	GGTCACGAAT	GTGACTGCCT	CCCGCATCAG	GTGCTCAGC	ACCGTGGCCA	660
	GGA						

1650RP

	GATCGCTCTG	CCGGGACTCG	ATTTTGTGTC	ACCGGCCACG	CAAGAAGGAC	CTTGGCTGCA	60
	TCATGTACAC	CTCGGGCTCG	ACAGGTGACC	CGAAGGGTGT	GTCGTTGACC	CACGCTAACA	120
	TCGTGGCGGG	CATGGCGGCT	GTTTCCGTTG	TGATCAACCG	CGCGATTGTTG	AAGCCTGACG	180
	ATCGTGTAT	CGCGTTCTTG	CCGCTTGCGC	ATATTTTGA	GCTTGTGTTT	GAGTTGACCT	240
	GTCTCTACTG	GGGCGCCTTA	ATTGGCTACG	GCTCCGTCAA	GACGTTGAGC	GAGGCTTCGG	300
	TCCGCAACTG	TAAGGGCGAC	ATGAAGGAGT	TCCGGCCGTC	CGTCATGGTC	GGTGTCCGAG	360
50	CTGCTTGGGA	GGGTGTCAGG	AAGGCTATTG	TTGCGCAGGT	CACTAAGTTG	CCTCCGTTCA	420
	AGCAAAAGAT	ATTCTGGGCG	GCCTACCACA	CCAAGCTACG	CATGAAGAAG	TGCCACATTC	480
	CAGGCGGCGA	TCTAATAGGA	AGCATGATCT	TTAAGAAGGT	CGGTGAGACC	ACTGGTGCCA	540
	ACCTTCGCTA	CATCTTGAAT	GGTGGCTCTC	CATTGTGCGG	GGATACGCAA	GTTTATTATT	600
	CCAAC TTGAT	TTGCCCGGTG	TTGATTGGTT	ACGGCTTAAC	GGAGACTGTG	GCGAATGGCT	660
55	GTATAGTGCC	TCCACACCAC	TTCAAGTACG	GGGTTGTGGG	AGACAT		

1650UP

	GATCCATTTTC	TCATGGAGAT	TAACGCTATA	TGCGAGGAAA	GCAATAACAA	GAAGCAAGCC	60
	AAGAAGTCTG	TTAACTTCTC	TATGCTAGGG	TTGACTGATT	TTACCAAAC	CAAAAAAGCC	120
5	GATACTACAG	ATGTCTGGAG	AGCGTTTAGG	ATGTACGACG	AAGTACAAAT	GA AAAAGAGA	180
	TTTAGTTATA	AATGGGATTA	TGATAAAGTG	TCCAGGGAAT	TGGATGAAGA	GACATGGAAT	240
	AAGATTATTA	ATAGGGAAAC	TTTGAATTTA	TTTGCAATTAG	TGGAAAAGATA	TACGGTAAAG	300
	ATTGAAAACG	ATGCCAATAT	AACCTATTGG	AGTTCGTGCG	TTATGCGCAA	CTCCTGTGCG	360
	AAGCATGAGG	CTACAGGAGT	GAGGCAATGT	GCCAACTTCT	TCTGTGGTAA	ATGGGAAGAC	420
	CACCCGAAGC	AGTTTCCCAA	GTGCCGCCGT	TGCAAGCGCA	CAAAATATTG	CAGTTGTGAG	480
10	TGTCAACTAC	AATCTTGGGC	ATATCATCGG	TACTGGTGCC	ATGATGTTGG	CTCTGTCTTC	540
	ACGGGCACCT	CCTCAACGGC	AAACACCACT	GGGACACATA	CGCCAAATGC	TGTCGGTCAG	600
	TCGGCTGGAA	CCACGACCAC	TACTACCACG	GCGGCTACGG	AGGTAGATCA	ATCCATTTTG	660
	ATGACAGCAA	GGGG					

1651RP

	GATGGCGACG	TTTACCGAAG	AGCAAAAAGA	AAAGTACGCG	ATGGCGTTGA	AGGACAAGGG	60
	GAACGAGTGC	TTTAAGGACC	AGCGGTACGA	GGAGGCGATC	AAGTTCCTACG	ACTGCGCGTT	120
	GAAGCTAAAA	GAAGACCCGG	TGTTCTACTC	GAATCGGTCG	GCGTGCTACG	TGCCCTTGAA	180
20	CAACCGTGGG	AAGGTTGTGG	AGGACACCAC	TGCTGCACTA	AAGCTGAAAC	CCGACTATTC	240
	TAAGTGTTTG	CTTCGTGCTG	CAACAGCTAA	TGAATCGTTG	GGTAATTATG	CTGATGCTAT	300
	GTGGGATTTA	TCTGCCGTAT	CTCTATACGG	CGGGTACAGC	TCGCAGACAA	TTGAGCCCGT	360
	GCTGGAGCGG	AATATGAACA	AGCAGGCTAT	GCAAGTATTG	AAACAGAAAC	TCTCTGGTGG	420
	AGAGAAACAC	GAACCTTCCCT	CCAATACTTC	CTTAGCGTCT	TTCTTCCGCA	TCTTCCCTTC	480
	GGAGACATCG	TTGGAGAACT	ACGATGAAAC	TTCCGAAGCA	GACCGCATTC	TTCTCAAGGG	540
25	ATTGTGCGCC	CTACACGCGC	GCCAGGCAGG	CTCCTATGAA	ATTGCTGATG	AAGCCTTTAC	600
	CGATGCTGTA	GAAAAGTTCA	CC				

1651UP

30	GATCGTGATT	TTGCGGGGCT	GCATCCTGCA	GGCTCCACAT	CATGCCGTGC	GCCAGGCTAT	60
	GCTGAACATC	CCCAGCGGGG	TCTACTGCAC	GTTCGGTGGG	CAGTCATCGC	CTGCGATCCA	120
	GTACGGTATC	TCGTCTACAA	ACTTCATCAC	ACACGTGAAT	GAGATCGAAA	CCCCAGACCT	180
	GGACCGCTTT	CTCGAGGTGG	TACGCACGAT	ACCAGACAAC	ACCTACTGTA	AAATCCGTCT	240
	TGTGACCTTC	GACAACGTGC	CTTTTGCTAT	CTCCCTGAAG	ACAAACTACC	ACTACTTCCC	300
35	CACCAGCGAG	CTCTCCCGCA	ACTCCGACAC	CGGCCGCTGG	ATTGAGCACC	TCTGCAACGC	360
	TACCCCGCT	AAAAACTAGC	AATAGACTGA	TATCTCTTAT	AGAACGTATA	AACTATTTCAC	420
	ATGTAACCCG	ATCACGGTAC	GAGCGCTGCA	CGCAGCTCGT	GCAGCATGCT	CAGTGGTATG	480
	GCAGTAGGCG	CCGCAGACGC	TTCAGATGGG	CACCTGCCCC	CATGGTCCGC	CCAGAGAGCT	540
	GCTTCAGCGC	GCGCTGTCCC	AGCCTGTGTT	ACCGTGCGTG	CGGCCAGCCT	TCGAACGCTT	600
	GTACCTCCTG	CAGTCTTCCG	CCATCTCTTA	GCTGCGCCTT	TGTGCGTCTT	CATTAGTGTC	660
40	CGCACCATGA	TCAGCGACG					

1652RP

45	GATCTTCGTT	CGTGAAAACC	TGACACGTCT	TCATGAGCTC	AAGAATTGCC	TCTGCATCTA	60
	TTCTGTCCGG	TTGGATTCTG	CCTTCCTTAT	TGTCCTGAAT	CATGCGCGCA	AAAGCGCGCG	120
	GCGTCCAGTC	ATGACGGGAT	CGGCCCTTAT	AGGACTTCCC	TGCAAGCCGC	ATGAGGCTCC	180
	GCCAGCCATT	TTCTTCAATA	ATATTGACAA	GTCTCTCGTT	TTCCAACACG	ACCTTGTTCTG	240
	CGAGACTGTG	GAACGTGTTT	ACGTCTATCT	GCTCAAGTAT	TTCTACCCCTT	TCCTCAGCAG	300
	ACCATCGCAA	GTTGCAATCT	GCCTCTTGGA	ATGTCTCCAT	AAGCTTTTCA	TTGATGTTAT	360
	CCACTGCTTT	ATTGTCAAG	GAGAGGATTA	GTATTTTCATT	AGGAGCTACA	ATCCCTTTCGT	420
50	AAACCAGGTT	GTAGACTTTA	TGCAGTAGTG	TCACGGTCTT	GCCAGACCCA	GGTCCCCTCA	480
	CCACATTGAC	AGTTGTACAA	GGCTCATATG	GATGTGTTAC	TACTCGTGAT	TGGGACGTCG	540
	TCAGTGCTTT	CATTCAATGA	TGATACATGC	TCGAGCGTCG	GCGAAGGAAA	TAAATTCTGTG	600
	AAATTCGTT	TTAAGATACT	CAAAAGAAAT	GAGATAACCG	CCCGLAAGGG	CGGAGTAGAA	660
	TTACAGCAGC	TATTGAATAT	ATTTAGTTTA	TT			

652UP

ATCTCCCCA	CCATTCTCCT	CCAGCGCCTT	CTGTNAGCGT	TCCCGGCGTT	GCTCTCTCGC	60
TTTGTCTTC	TTCTCCTTAC	GGATTTTCGC	ATACAGCGGC	TTATTTCAGTT	CGAACTGTTC	120
TTCTTCCAC	TGTTTCTTCC	ATTGCGACTT	CGACATGCCT	TCGGGAACGG	GCGGCAAGGC	180
GCCCGTGGT	TTTGGCCGAC	TCAATGTTTC	ATCATTATTA	GTTTCAGGAG	TCATTGCCCA	240
TTTGAGGAC	TCTTAGCGCA	AGGTCTTGTC	ACTGAAGTAC	AGTAAAATGG	ATGCCCTTTC	300
CGGTGATGA	GGCAATGACC	TGGTGAAATT	TTTCGCCCAT	GGTGAGGCTG	TATAGTGGTC	360
CGTGACAAC	AGTTCAGCCC	ATATATGGAG	CCCCTAGGTC	ATATAAAGGG	TCAGGAGCCC	420
CTAAAGTCT	TTGTATTCTG	ACCTTTTATT	GGGGAGCTTT	AGGGCGTGTG	TCTCTATCCA	480
AGCCGTGTG	GTGAAAAGCG	TCTCAGCTCA	GCGCGTTCTA	CTACACTGAG	ATTTAAAAAC	540
AACAGCGAA	GCAGCAGAGT	ATGACGTCCT	TAGCAACTAA	ACTCGAACTT	CCATGGGTTG	600
GAAGTACCG	GCCGAAGCTG	CTGAAAGATG	TGTGGGAAAC	GAWGAAACGG	TGGAGCGCCT	660
CAACAGATG	CCAGGGATGG	AAATATGCCA	CACTTGA			

653RP

ATCTTTGAT	GCTATTTCTG	ACCTTAAGGG	CTGTTCCGTG	CTGGAGATGA	TCTCCGGCTA	60
ATAGGGGAG	ACCGTCTTCC	TGAAGGGTGT	TGCCTTATAT	ATAAAGCGGA	ATAAGTTTGG	120
AATGCTACC	ATGGAGGACC	TGTTTGGGGC	CATTAGTGAG	GTAGCAGGCC	TTGATCTCAT	180
GCGAAGGCA	AAAGATTGGA	TTCTAAAGAT	CGGGTACCCG	GTTCTGGACA	TCAGTGTGT	240
GATGGGAAG	ATTTCACTGT	CACAGAGACG	GTACCTTTTCG	AGCGGACAAG	CTGACGCCAA	300
GACGACCTA	ACCACCTGGT	GGATTCCCTT	GGAAGTGACA	CAGGACTCAA	CTTGCACTAC	360
ACAGAAATG	GTTTCTAAAT	CCCAAGAAAC	AGAGATCTCA	GCTACCGATT	TTGTGTCTTT	420
AACAACGAT	GCCCACGGCT	TCTTCCGGGT	GCATTATGAG	GATGAGACTA	TTCTGGCTAA	480
ATCTGCAAG	AACATAGCGC	AGCTGTCCCT	ACGCAGTAAA	ATTGCGTTAA	TTTCGGATGT	540
GATGCCACT	GGTACCTTCA	CGCAACTCAT	GGCTGTTCTG	TCTGCATTCT	CTGCAACGCA	600
TCGCAAGAC	TACTATGTTA	TGGAACCTCT	CATTGTCCAT	TTTCCACTCG	GCCTGCTCAA	660
CATATATCG	CGATGCGTCG	CAGAGATCCG	CAAGAAGCTT	GCGGCGT		

653UP

ATCTAATAC	TGGGAGCGAC	TGGGCGTTGT	GCGGCTGTCT	ATCTGTATGC	GAACCAGCGA	60
GCTGTGATG	GAGACANATT	GTAATACGAT	GGTTGCGCGC	TCATTGCTGT	GAACGGCCGA	120
TTGTGGCCC	AAGGCTCGCA	GTTTTCGCTG	AGGGATGTCT	AAGTGGTTAC	TGCAACTGTA	180
ACTTACAAG	AAGTGAGAGA	TTACCGGATG	TCTGTGATGT	CGCGAGGGTT	GCAGGCAGTA	240
CGAATAACG	TGACTTTCGA	ACGTATTCAA	GTACCTGTAG	AACTGGCCGC	GATGCAAGAT	300
GGTTCAATC	CTACGATTAA	CCTGACGAAG	GCGAAAAGCCC	CATACTATCA	CAGCCCAGAG	360
AAGAGATTG	CGCTGGGCCC	AGCTTGTTGG	TTATGGGACT	ACCTACGTCG	TTGCAGAGGA	420
CAGGCTATT	TTCTTCCACT	ATCTGGGGGC	ATTGACTCAT	GTGCCACTGC	TGTAATTGTG	480
ACTCTATGT	GTCGGATGGT	TGTCAACGAA	ACATCTGAGG	GTAATCTGCA	AGTAATTGCA	540
ATGCGAGAA	GATTGGCTCG	TGCTAGCGAT	GACTGGATTG	CAACCGATGC	ACGTGAATTT	600
CAAATATGA	TATTTTACAC	TTGTTTTATG	GGAACAGCAA	ACTCCACAAA	TGAGACTCGC	660
ETCGGGCAA	AGAAACTTGC	GGAACACCT				

654RP

ATCTTATTA	ATTTTGATGG	TGCTATATTC	TAAATTCAAG	TAATGATAGC	GCGTGATGCG	60
PACGTACCT	ATACATATAA	CGCACAGTTC	TCCATCGTCT	ATGCGTGTAT	GAAAACTCACT	120
CAGCCGTGC	GACACGCCAC	GTGTAATCTA	GTGAGTTTCA	AGTTCTTCCT	CCTCATCGGC	180
BAAAGTTTC	CCCGCGGCGG	TGAGGTTCTT	GAGCCGCTCC	TTGAGCTGCG	CGATAAGGCT	240
TTCTCCCTT	TGAGCATGCA	TGCGGATACC	CTCTAGAGAC	ATATGAGCCG	AATCTGCACC	300
TCTAAACCA	TGTTTCGCTGT	TGCTGCCAGT	GGCAGCTGCC	AGTTTGGGAC	TGGACAGACC	360
ETCTGTCCA	TCTTTGTAAG	AATCCTCGGT	CGTTGCCGAG	TTGGAAATCA	TGGTTCCCAT	420
GTGTGCAAG	ATTTTCTCCT	CTTCTGTTAG	TTCCAGATGG	GTACCTGTCA	GATTGATCAA	480
EACCTGCCG	CTTTTACGGC	GCGAGAGCTT	GGGCAGAAGA	GAGTGCCCGG	GTTGGCGTCG	540
FTCACCAGG	GTTTGTAATG	GAGGTGTGAG	ATCTCGGAGT	CCTTGCTAGT	CTCAGACA	

1654UP

	GATCCGGGGC	GGGTCCGCSG	CAACCAACGA	TGTCACGTGT	GGATACCAGC	GACCTGGTAG	60
	CGGTTACGGT	GGGAGGAGCA	GCGGTTCGGG	GAAAACCGGC	AGCAGAGCAA	GTA CTGGCTG	120
5	AAGTGGGGGC	CGTATCTGTC	GGAGCGGAGC	TGGGCGACGG	TGCGGGAGGA	CTACTCGTTT	180
	GACGGCGACG	CGTGGCGGCA	CTTCCCGTTC	GAGCAGGCGA	ATGCGCGGGT	CTTCCGGTGG	240
	GGCGAGGACG	GGATCTTCGG	CGTGAGCGAC	AACCGGCAGC	TGGTGTGCCT	GAACGTGGGG	300
	ATGTGGAACG	GGCGTGACGA	GCTGCTCAAG	GAAGCGGATG	TTCGGGCTGA	CCGGGCCGCA	360
	GGGCAACCAC	GGGGAGGACT	GCAAGGAGCT	GTACTACTAC	CTGGACAACC	TTCCGAGCCA	420
	TGCGTACATG	AAGGCGCTGT	AYAAGTACCC	GNTCAAGCGG	GCGTTCCCGT	ACCAGGAGCT	480
10	TATTGCGGGC	AACGACGCGC	GCGGGTACGC	GGAGCGCGAG	CTCGAGGTGT	ACGAACTTGA	540
	CGGGCTGTAC	CGCGAGGCGG	CGACCGGCGA	C			

1655RP

	GATCCACTTT	CCACTCTGAC	ATCGGTCAAT	CAACGCTGGG	CACTCAGGTT	CAGTTCTGAA	60
	GCAATTGCAG	TCCCCGAGT	TACCTTTCAT	TTATTTAGAG	ACTTAGTGGT	GTTATAAGTC	120
	AGTCCTATCG	AACAGCTCTC	GACAGTCATC	GGAAACGAGA	AGTTACCCGC	CCTTGAGACA	180
	CAATCTGTTA	CCCGACTTTG	ATTTACATGC	GTTACCCGCT	CTGGGTCAAG	TGCCGGGAAG	240
	CACATGACAA	AGGCCGAGAG	CTAGTTACGT	GAGGCTCATT	GGGGTATGCC	GGAAACTCTA	300
20	ATGACTAGAT	CATCCGAGAA	GCACCGGTAT	ATAAGACGCA	TCACGGTGGT	GCTCGAGAGA	360
	GTGTGTAAAA	TGCCAATTGC	TTAGCCACTG	ATGCCAAATA	CACTGGATAA	GAGTTACGTA	420
	CAAAACGGCC	CTTGAGAGGA	CGGGGTGTTT	CAAGGGAAAG	TGGTCTTCGT	CACTGGCGGG	480
	GCCGGGACGA	TCTGCAGGGT	GCAGGCGGAG	GCAATGGTGC	TACTTGGTGC	CAAGGCTGCG	540
	ATCAATTGGC	GCAATGTGGA	GAAGACTAAG	AAGGCGGCAG	CGGAGATCGC	GGAGTTGGCG	600
	GACTCGGCTG	ACTGCGTGCT	CGGAATTGGC	GGCGTGGACT	TCCGGGAGGT	CCCGGACATG	660
25	AAAGCGCGCG	GTGGAACAGA	CGGTTGCCGC	GTTT			

1655UP

	GATCTCTCTG	ACCGCCCCCA	AACGCTGCTC	CGCGCACATT	GACACTGGTG	TTACCACCCA	60
	TTATGTCGGC	GGCCGTTTCA	TCCCAGATGC	CCTGGCCCGT	CGTCATGGTT	TTGATCCGTT	120
	CCCGTACTCT	GGCACCAGATC	AAATACTGCG	TATTTGAGTG	CATATTGCTT	TATTCTATAG	180
	TCTGCGTACA	TAAGCCGGGG	TTTCAGAGGG	CGGGTAACGA	TGACGCGTAA	CGTTTCTTTT	240
	TCGTGATATG	TAAAAAGAAA	TGTGCAAAAC	TTTTTCATGA	GATGAACGTT	ATACTGGCTT	300
	GTTTCTCTCT	TGAAGTCAGC	AATCTCTAAC	CTTTGAAGGT	GATTAATAGG	CTGTTGCGTC	360
	GTGTTGGAAC	ATTGACGGAG	CTTTGCTTGT	TGTAAGCGAT	TAATCTGTGT	TGCGAGTTTC	420
35	ACTTTCCTCG	ACTGGTAGCA	GGTCTGACGG	GTCTGCGAAG	GGCGTCGGAG	ACTTGCAAAT	480
	ATAGGCGCAA	GACAACCTGC	GAGATACAGG	GGAGCTGCTG	CAGCGAACAG	GTGGAGTGCA	540
	GGCGGATCTT	GAGGACTAGC	TGCTCTGGGA	CGAGATGGCG	AAGGAAAGCC	TGCGGATAGG	600
	CGTAGCAAGC	ACGGAGCCCA	AGCGGGTGAA	GGTGTTCATC	CTGGAAGACA	GCGAGTGGAG	660
	AGACACTGGG	ACGGG					

1656RP

	GATCTAGCGA	TCAATCGCAG	CTAACAGATG	CTCTGACATT	ATGCATGAGC	GCAATCATGA	60
	TGGACACATC	GAAGCTCAAG	CATAAAGTAG	AGGACTCGGA	CATGCAAGCG	TACGCCATCT	120
45	GCAAAAGCGT	GTTGACCAAT	ATGAACGAGG	ATGCGTACTA	CAAGCGCATG	AAGGCAGCAA	180
	AGATGACGT	AGATGGCTTC	TCACTCGATG	AGATTCTTCG	TAAGGACTAT	AAAGAGTTGG	240
	TGTTCCCGAG	CCGCAAGTGA	GATCTACGTG	TTGGCGTACC	TACTGTGCTG	CGCTCTTTTC	300
	AATGGATGCG	CGAGAAGTTC	GGCGACAATG	GGACTACGAA	GCTCTGGCAC	AGTTTCTTTC	360
	TGGAGCATAA	GTAGATTTC	CTCGTGGTGC	TCACAATTAA	GAAGGCCAAC	GAGGGTTTGA	420
	AACGGGAGTT	GGCTATCATG	GCCAACCTCT	GCGACCGTGC	GCAGCAGGTC	GAGTTCTTGA	480
50	TCCAAAGCCT	CACCCAGAG	TTGCAGTTGA	GCAAGACCTC	TGTCTTCTCC	CCCGGCTCAC	540
	TCGTCAATTGA	GACGTGCGAC	CAGAGAATGC	TATCTGCCAG	TCGCAAGCAA	ATAGTACCTC	600
	TCTCAAGAG	AACCGTCGCC	GAGTTATAGC	ATGCTTATGT	AACTAACGTT	CCAGTTACCA	660
	TCTTCCACAC	TCTCAGCGGC	AATGTGCGGT	TTGTGGTCTC	CAACC		

1656UP

	GATCTCTTCC	TACCCCTGTAT	TTCTACTTAG	CAGGAACCTA	AATATGTGTA	AATCATCGCT	60
	AGTAGGATGT	TTTTTCTACA	ACACAGACAT	TTACGCCAAC	CAGAACGCTA	AGGCATGCAG	120
5	TATCTCGCGG	AGTATCTGCC	TAGGATCGGC	GTAATGCTAA	TAGTGGTTGC	GGGAGAGGCT	180
	GGTGAGGTTG	AAC TGGGAAA	ATTGGGTGGG	CATAGGTTGA	CTGTACAGT	AAATGGAGCG	240
	GCCGAGGTGA	TCGAATTGCC	CTGTGAGGTT	GATCCGCTAG	CGCGGCCGCG	TATTAGACAC	300
	TCCGAAGGTG	CATTTGAGGT	CCGGCTGAAG	GCGGTGAATG	GGACTGAGGG	CCGGGGCGCG	360
	GACTTCACTA	TGCTGGCTGC	AGAGGACGGG	TGGGGGCGAA	AAGACCTGGC	GCGTGTGAA	420
	CTGCGCTGCG	CGGCGTGCGA	CGGGCTGCTG	GTTACGGGCG	AACATGCAGG	CGCGTGAGCG	480
10	CGATGCCCTC	CGAGTTTTGG	ACGGAGCTGA	TGGACTACTG	GCAC TGCCAC	AAGCCTGCGG	540
	ACGAGTCTGC	GGGCGCACAG	CAGTACCTGA	CGAAATATAA	CGCGCTGCTG	CCTGCGGACG	600
	GGGAGCTGCT	GGTGGGGGAC	ACATTCTGTA	CGGTGCGCGA	GGGTCTGCTG	TCAGAGAAGC	660
	TGGCGATGAG						

1657RP

	GATCGATTTA	GATTTACCT	TCAGGCACAC	TAAGAGATGG	ACTCCTTACA	CTAAGGGTGG	60
	GCTGACGGGC	GGCGTTGAAC	GTGTTTTGCT	CGACGGACAG	ACTGTCGTGT	TAAGCGGTGA	120
	CCTAGTACCA	TCTGCAGCTC	TAGGTGAGGC	CGTTGTACCT	ACTTCAAACA	ATTACACTTC	180
20	GACTCCTCTA	TTGAACGCGG	AGCCATTGCA	CAGCTTTGTT	CCACCTTCTA	GCTCGGGTAA	240
	GAAGCGGTTT	TCCTTCTCCC	GCGAGCGGGG	AAACTCGTTT	GCTTCAGCTG	GTGACCACGA	300
	GGAACTGTTT	ATCGACCAAC	CGCTGGAACA	AAGGTTGATG	TCTTCAAGGC	CACCAAAGGA	360
	GCTGTGCCCC	CCAAGTGCGC	TGAGAGAGCT	AGTCCGTGCG	CACAATCCAT	TCAGAGGAAG	420
	GAATATCTTA	TCTGTTAACC	AATTCAAACG	TTCCGACTTC	CACGCCTTGT	TCGCTGTGGC	480
	CCAAGAGCTG	CGTGCGGCTG	TCGAGAGAGA	GGGCGTTCTC	GAATTGATGA	AGGGCCGCCT	540
25	CTTGACGACC	ATATTCTATG	AGCCATCAAC	GCGCACATCC	TCCTCTTTTA	TCGCGGCAAT	600
	GGAGCGCCTC	GGTGGTAGAA					

1657UP

30	GATCAAGTCC	TTCCAGCCGA	GCCAGTCTCG	CACCGCATAC	CAGAAATGCA	TTCCGCGCACC	60
	TAGCGGGATA	TTCTGCGCGC	TGTACTCGGT	CCACGAAAAG	GCCCAGCGGT	GTGCCAACGC	120
	AAAGGCTACC	ATCTCCAAAC	AGAGCGCCAC	ATTGTGGTAC	ACGTAGCCCA	TGTTCTGTGC	180
	CSCGCAGTCC	TGAATCACGT	TCAGGTAGTG	GAGAAGCGTG	ATKACCATAC	CCTGCCAGTA	240
	GGATGCAAAA	ATGATCAACT	TAACACATAA	GAATTTAGGG	CATGGGTTGT	ACTTGCCCAA	300
	CTCGTTGTAT	AAGCACTTCC	AGAAGAGCGC	CAAGTTATAG	AGCGACCATG	ACGCGCTCCG	360
35	TTGTGTATAC	ACCGTCAACC	ACTTACATCC	CAGATCCAC	TCCAACACCT	GGAACGCAGA	420
	CATCCCCAAG	CAGTACACCG	GCTTGAACCA	CACGTACTGT	AGAATGCCCC	GCTTCACAGC	480
	CAATAACGCC	TTGGGGTCCG	CCATATCGAC	CATGGGCAAC	ACCCAACGTC	CCACAACGGG	540
	AATCGGGTGC	TGGATCCTTT	TCTGCTCCGG	CGCAAGGT			

1659RP

	GATCAAAAAGT	TGATTAAACT	AATAAAAGAA	TTATTTTATG	TATATTGATT	GTATAGTCAT	60
	TTTCAGACAA	AAATCGTGGA	AATTTTAGCG	GCCAAACATA	AAAGTCAGAC	ATTAGAAACT	120
	GACAGATACT	TTATTTACTG	CATAATTACA	CTAAAAACAA	CTGTTCTCAA	AAACTACGGA	180
45	TTATTGACCG	CCCCCTCACT	AATAATGTAC	TCCTTCTATC	GGTTTCTTGC	GGGTAGAAGC	240
	ACGTAAAGAG	ATCAGTTTCA	CTTTGCAATT	TGGGCACTTT	TACGTTTCCA	CTTAACGATC	300
	ATTCTAGTGT	ATTTTATGAC	CAGGAAAGAA	AAGGAGCCTA	AAAACCTGAA	GGCAGCCAGA	360
	TCAGCGACTG	ATCCCAAGAC	AAAAACCAAA	TATTTGTTAT	TAGAGGTTTC	TTCAAGGTGAG	420
	TATATTTGGG	TTATCATCAT	GATCAAAATC	AAATTGGAAA	GCATCCATAA	CATGACAAAT	480
	CTAGTCCGCA	CATCACGGTA	GTGATCTGCT	TGCTTTTGGA	TAGGATCAAC	TTTTATTCT	540
50	ACCACTTCAT	CCGATTTTAG	ACGACCTTGA	TTTCCTGGTA	TTTATTATCG	ATGTCCTGTG	600
	CCCATTCAGT	ACCCCTCACT	ATTTGTTTGC	CACGGGGCCC	TGGGTAACCA	TAGCTTCAGA	660
	CTTTGGCTTG	GACCCCTGCG	AAGCGCCTTT	TGT			

1659UP

	GATCGAGTGG	TCCACCAGGT	AGTCCTGGCC	CGGCTTCACG	TTCGGCGGCG	TCGAGAAGTA	60
	GACCCGGTAC	TGCTTGCAAG	CCTTCTTCAC	CTCCTCGTAG	CTGCCCGTCA	GCCCCACGAT	120
5	GTCCGGGGTGG	AACTCGGCCA	GGTACTCCTT	CAGCACCGCC	GGCGGGTCCC	GCGCAGGGTC	180
	GCACGTCACG	AAGATCGGCT	GCACGTCGAT	GCCCCGTTGT	TTCAGTCCGC	GTAGCCACGC	240
	CGCCAGCTTG	TCCAGCTCCG	CAGGGCAGAT	GTCCGGGCAG	TGCGTGAAAC	CGAAGTACAC	300
	CAGCGAGAAC	CGCCCGAGAA	GGTTCTTCTC	CGTGAACCTG	TTGCCGTTGA	AGTCCACCAG	360
	CTGGAACGGC	CCGCCACCG	CCGGCCGCCG	GTACCCCGCG	TTGCCCTCCG	CCTCCCGCTG	420
	CACCTCCAGC	CGCCGCTTCT	CGCGCGAAAA	CACGTAGAAC	AGCCCGCCGC	CGAGCACAGC	480
10	AGCACCGCCG	CCGCCTTCCA	CGTCGTGAAC	TCGATCGCCC	CGCCCTCGAC	CGCTGCGAGT	540
	GCGTTTCTTG	CGCCCCCAGC	GGGATCCGGC	TCAACGGCCG	CCGCTTGCCC	GGCGCTCTG	600
	GCCCGCCGGC	GCGTCTGCG	TCGCCAGCCG	TGTTCCGCGAG	AACTCCCGCA	CCCCGCCAAA	660
	CGCTGCTCTC	TGCCTTGCAA	TTCCCGCAGC	TTGCCTGCAA	ACACCGAGTC	CTACTGATCA	720
	TCTCTG						

15

1660RP

	GATCAATTTCG	ATGCCAACCA	AGATGAAGAC	CATCTGGGTG	AGTTAGCAGT	GCACTCTGCG	60
	GATACATGGT	CTGAGACGGA	TAGGAATCTA	ATTTTGAAAT	TATTGGGCAA	GTTCAAGAAT	120
20	ATCAAAGCTA	TTTACAAATC	CGAAGATGTC	CGCCAAAGGT	TGATGGAATT	ATTGGGTAGT	180
	CGAACGCTGG	AAGTGCAGAA	ACTGGCCCTA	GATGCGTTGT	TAGCATACAA	GGATCCAGTA	240
	GCTGTGAAAT	ATAGGGACAA	TCTGAAGAAC	TTATTAGATG	ACACGTTATT	CAACGACGAA	300
	GTAACAAAGT	TATTTGCTCA	GAATGAGTCA	AGGGTTATTG	TCAACACTGA	TGAAAGATTA	360
	TTAATGCCCT	TCATTTTGGC	TATTTTATTT	GGCCGTGTTT	AGACACCTAA	TACCAGTGGG	420
	ATCAAAAAGA	CAAGAAAAAC	TGCGGTGATA	ACTGTCTGTC	CAAAATTAGG	TGAGAAGAAT	480
	ATTACTGACT	TCTTGGCTCT	GGGTAGTAAT	GGTATCAACT	ACCAGTACTT	CTTTGAAGAG	540
25	AATGCGGTTA	TTCTTGACAG	TGAGCTTACA	GCGATAAATT	TTAGGAGAAT	GCTTGGCTTC	600
	ATAAATGTCC	TAAGTGCCCT	GTTGAATGTT	TTAGGTTCCT	ATTTCCCGGA	GGCGGTCAAG	660
	ACAACTATTA	AACCTCTCGT	TTACGCAATT	CACATGTCTG	GTCGTACTGG	ACAGAATAAA	720

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1660UP

	GATCTTATAG	ATTTTCATCC	CCAAGCTTAC	AAAGAGAACG	TTATCCACCT	GTTTTAGCCA	60
	GGCTTGGATG	TATTTTTCAA	TGGTACCCAT	GTTCTCCTGG	CCCAAGTTCT	TGAACAAGTT	120
	AGTTAGTAGC	AGACTAGCCA	TCTTCTTGCA	TTTAGGAGAG	TCGTCAATTA	CTGATACGTT	180
35	TGCTAGGAAC	ACGAAGAATG	AGGATGAAAG	TTTCATTAGT	AAAGCGGGCC	CAGATTTGTT	240
	GATCAGAAGG	TTAAGCAATT	CCATAACAGA	TTGACGACCT	TCTTGAGATG	GATACTGCAA	300
	ATTGTTGACT	AAAAATTTCA	ATTGTTTTTC	CAGCCTGCCT	TTACTTTGAT	CATATTCCAT	360
	GAAGAAGTGG	TAATAGACAC	TCCTGGCAAC	ATCCCTGATT	TCCTTAGCAT	GATTCTGTGAC	420
	CATGACTTCT	GCAACGTTAT	CAATAATATC	GTACAGCTTC	GGAAGAACAA	TATGTTTGGG	480
	AACCAAGGAT	TTCAAAAAATC	CAAAAGCCAG	ACCTTGCTTA	TTGGGCTCCA	TCAAATCTGG	540
40	TTCAATCCGA	CCCAAAACAT	ATTGAGCCGC	AGAATCCTTT	AATTCAATGT	CTTTATAGCG	600
	GATAAGCGCA	GATAAAAACT	TCAGACCGAC	TTGACAAAGT	TCACCAGAAG	T	

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1664RP

	GATCCTAGGG	TGGTTCATGG	CACTGAGCGG	GACGTGTTCT	TGGACCGGTC	GAACCGCAGC	60
	AAGAGTCTGA	AGTCCTTGAA	CGCGTCTCTG	GAGCGGCTGA	AGCGCAATCG	GCAGGCGGCG	120
5	TGGATTTTCC	CAGAGGGCAC	GCGGTCTGTAC	ACAACGGAGA	TGCAGCTGCT	GCCATTCAAG	180
	AAGGGGGCGT	TCCACCTGGC	GCAACAGGCG	CAGATTCCGG	TGATTCCGGT	TGTGATGTGC	240
	AACACGAGCA	CGGTGTTCAA	CCCGCGGCTG	GGCATCTTTA	ACCGCGGCAC	GATCACGGCG	300
	AAAGTGCTGG	AGCCGATCGA	CACGGCTAAC	ATGACCAAGG	ATGACGTGGA	CAAGCTTGTC	360
	AGCGACGTGC	AGGCCAAAAT	GCATGCGGAG	TTCGAGGCGC	TTGGCTACGC	GCCTGCGATC	420
	GTGGACACGA	GCCTACCCGA	AGAGGCGCTG	CGGCCGGAGT	TTGTGGACTG	CAAGGAAGAC	480
10	ATCACGGAGG	TAACGCGCCT	CTCGAAGTAA	CCTTGGTTGG	TATCATATAA	ACGTTGCGAC	540
	GAGTTATGTA	CATATAGCGC	TGCTAAGTAG	GCATTTCAGTC	CCC		

1664UP

	GATCCGACTG	ACGGTGAATA	GGCCACCGTA	GCATGCGCCG	CTGAGCGCGC	TGGCGAACGA	60
	TAGCAGCGGT	CCTTCCGAGG	CTCTGGTGGC	CAAGACAACG	ATCCACTGGC	CCACCACGCC	120
	CAGTAGGAGG	ACTGCCCACT	GGACTGACAT	CGTCGACACA	CGTTGTGGA	TGCAGAGGTC	180
	AATTATCAAG	CCCGACAGGA	AGCGCGAGCA	CGTCGAGGCA	ATCGCAAATT	CTGGCAGCAC	240
	CGACGCCTGG	CCCAACAGGC	TCGACAGCGA	GCCCATGTTG	GTGAGGAACA	TCTCCATCGG	300
20	GCCCAGCGAC	AATAGCAACA	CAAGGGCCAT	GAAGTACGCC	GCTGGGTCGT	GGAAGAAAGTT	360
	GCGCAGCCGG	CGGCGGATGT	CCTGCGGCAG	CAGCGGCTCG	GTGGGGCTCT	GCATGCCCGC	420
	GAAGGTCAGT	GTTGCGGCCT	TGACCTTGAG	CATAGTGACG	ATGCTCGTCG	CAAACCACAT	480
	GCAGAAGCTG	ATCAGCGTAT	ATGCGACAGC	TAGAGTCCTG	AATACACGAG	AAAGGTCAAG	540
	GTACGGCAGG	CCATTTCCAA	AACCATGGTA	TCTTCAGCAG	CTGCGACCTA	GCACAGAC	

1666RP

	GATCCTTGCG	TACTAAGAGT	TAGACTTTAA	TTAATAATAT	TATTTGTAGA	AGATAGAAAC	60
	CATACTGACT	CACGTCGTAT	TTAACCCATC	TCACGTAACC	TTTTAATTGA	CGAACAGTCA	120
	AACCCTACTT	AGCTGTTACA	ACCAAGAGGA	TAGGTTGAGT	CGACATCGAG	GTGGCAAACA	180
30	TAACCTACAA	TAGCTACTCT	ATCGTTATAT	TACCCCTGTT	AATTTTGTTA	TCATAATAAC	240
	ATTTAATTAT	TATTTCAATA	ATTCTCATT	TTGTTTCAGC	TATTTTCATT	TGTATTATTT	300
	ATTAATTAA	ACATATTGGG	CTTTTCGTGA	TATAATTATT	GTTAATCCTA	CTCATATATC	360
	TAGTCGTTGA	ACGTTCTTAT	AACTTTTATA	AAAGGATTGT	TATAAGCTTC	GCTGCAGATT	420
	GTCCCTTATT	ATTATAAAAT	AATATTAGGA	GTTCCTTGCA	ATTAACCCAA	TTTACTCAAT	480
	ATATTTAAAT	ATTGATAAAT	AAATTTTACA	ATTTAATGGG	ACTATTAATT	AATCCCTAGC	540
35	GTAACCTTTA	TTCGTTATCA	AATACCATTA	CAATATGTAT	ATTTTGTTC	ATTATGCCAA	600
	ACTTACGTTA	TTGTTCTACT	TGTAGGTATT	ACAATTATAG	CACAGTTATA	CCATTATATT	660
	TATTTAATAT	ATTATCCCTA	TATTATGTTT	TATTAACATA	TAAACTGTA	CAT	

1666UP

	GATCCTTATA	AAATGGGCAA	TAGACGTGTT	ATAATATAAT	ATACAAAATT	ATAAATAAAT	60
	ATTTAATAAA	ATATAAAATT	AATAATTAAA	GTATTATAAT	AATTAATAAA	ATTATTTATT	120
	AATAAGTATG	GATTTTAAAC	TGAAATTTGT	TAAAAAGAAA	TAAGAATTGC	TAGTAATCTA	180
	TTAATAAGAA	AGTAATGGTG	AATACTCTAA	CTGTTTCGCA	CTAATCACTC	ATCACGCGTT	240
45	GAAACATATA	ATTAAATAAA	GAATATTAAT	TAATTTATTA	ATTATTAATT	ATTATTAATA	300
	TTATTTAATA	AATATAATAA	ATATTTTAAT	TTAAATTATG	AATTAATGCG	AAGTTGAAAT	360
	ACAGTTACTG	TAGGGGAACC	TGCAGTGCGC	TTATAAATAT	CTTTAATATT	CCATTTTATT	420
	AAAATAAATA	TATTTTAAAT	TATATTTTAT	AATAACTATA	ATTAAATAGT	TAAAATTTAA	480
	ATTATAATTT	AATAATTTAA	TAACTTATTA	ATTAGAGAGT	TAGGGTACAT	CCCCCCTAAT	540
	GCTATGCATT	ATGGTTGGTA	CCACTCTAAT	TAATAAACTA	TAATAAATAA	ATACTAATAT	600
50	TTTATATCAA	TTAAATTATA	ATTATTTTAT	ATTAATATTT	TAATATTATT	TAATGAAATA	660
	TATAAATAAA	GTATTAT					

1667RP

	GATCCATCGT	GGTGTGCTTC	ATTACCTGTA	ATTCCATTGA	TATCCTGGCT	ATGCAGTGCT	60
	GGAAACGCTC	CTCCAGCGCC	TCTATTTTGT	TATTCAGCTC	CAAGTACTCC	GCGAGCTTAA	120
5	AGGTCAAACGA	GAGCGACCCCT	GGATTGCACC	TGACGGCGAT	CTCAAGGACC	TTCTCGTGCT	180
	CGTTCTCGTC	CACAAACATG	GCCTAGTTGT	ACCATATCTC	CGGCGCAAAG	CACATGTGCT	240
	GCACAGCCTG	GCGGTGCAAG	TATTCCACGC	GCTGGCGCAG	CACGACTTCG	GGCAGGTGCA	300
	GCTTGTGTTC	CAGCTCCAC	TGGATCCACT	TCGTCCAGAT	CTGCAGCTGG	TACTCATCGT	360
	ACTGACCGGG	CGCAGGCAGG	TTCTGCTGTG	TCGCCTGGTT	TAGCTTCGTG	GGCAGCGAGC	420
	GCCGCAAGCC	CTTCGTCAGG	TTCCGACCACT	CCTGGTACAG	CGAGCGCGCA	TTTATGTAGC	480
10	TCGCCGAGAG	CTCTCCGATG	AACTTCCCGG	CCGTCAAACG	GTTGACCTCC	TGCTCCCACT	540
	CCGTGTATTT	CTCCCAGTAC	CGCTCCAGCG	ACTCCACTGG	CAGGCACAGC	AAGGCGCTTG	600
	TACAGCTTGC	GCAGAACTCT	GACCCGGCTC	TGCTCCTCCC	ACTTGCTCAC	CGGCTTCCAC	660
	TGCTCCAGAA	ACTGCAGGTA	GTCTTGCCAG	AACTGCATCG	ACCGCGG		

1667UP

	GATCTAAGGG	ATGGGTGACT	GCTGCCGGTG	CTCACAGCAG	TGGCACGTAG	CTAGTAATGG	60
	TGCGAAATCG	ATCAAAGAGG	GTGCGTCTGG	CGGTACAGGC	AGAAAGCACG	CCCGCCGATA	120
	CAAGTTCCAG	TTCTACAAGC	ACCTGCAGTT	CCAGGGTACG	AGGTACCAGG	TGGTGACTTC	180
20	GCGGCCGTAT	CTGATAGAGC	GGTACGGGGA	GCGCAAGGCG	GCGACGATCA	GGTCGTTTGT	240
	CAAGTGCACA	CTCGTGAAAC	TCAAACGACG	TGTGACACGG	ATCAGCGACG	AGCGGTGTAC	300
	GCACGGGGTG	TCGAAGTGGG	AGAAGTCGAA	GCTGTTCTCG	CTGCTGGTGA	CGCTGTCCGA	360
	GCGGGGCGGG	CCGGAGTACT	GGCTGGACAA	GACGAACGGG	TGCCAGAGCC	GCGCGGGCGG	420
	AGACGGCGCG	CGGAAGAGCG	ACGAGGTGGA	GGAGGGCGGG	AGCCGGCGGG	GCCAGAGGCT	480
	CGTCTGCACA	CTGGTGGAGC	AGATCATGCG	CGAGAACATC	ACGAGGAGCT	ACGACGAGAG	540
25	CGTGCAACGAC	GAGAACTACG	TGTTCTCGTC	GATATGGGCG	AACTTTCATG	AGGGGTTGAT	600
	AAACCACTAC	CTAGAGAAGG	TCATCATACC	CAAGTCCGAG	CTGAAGGTGT	GCCAGCAGCT	660
	GTACCAAGCC	GATGATGAAG	ATCATCTCAC	TCTATAACGA	ATACAACGAG	CTCATGGACA	720
	AGA						

1669RP

	GATCAACAGC	ACCTCCACCT	GCGACAGGTC	GAACTCATCG	TAAAAAGGCA	GCGACGCGAT	60
	ACCCTGGTGG	GCGGGATGCA	CACCGGCATC	CAGCATGACC	GTCTTGCCCT	TATACTGCAA	120
	TATATGGCAT	GAGCGTCCAA	CCTCATTTGT	GCCCCCAAGC	CCGAAGAAATC	GGAACGAATT	180
35	CGTATCTAAC	TTCTCCTCCG	TCATCCGCAA	TTTGTTTATG	TCTGCCCTGCT	GCGAGGTGCT	240
	GTGCTCTCTA	CCCAATGCCT	GCGACACTGG	CTACTGAGAC	AAATCCACGT	AGCTGCTGCT	300
	GCAACTTTTT	TGCAGCTATG	GAAATACCGT	GGTTCGGTAG	ATTTGATTCT	GTGGAGATGA	360
	ACGATCAAAC	GCGAACACTG	GTTATCGGTG	ATGCGTGTGT	TTAGTACCCA	ATCACCCGCA	420
	GAGACAAGTG	CCACTATTAA	TTGTAGTACT	TACAGGAACA	CCGATCGCAA	GAACCTCTTA	480
	CGGCTCCGTT	TACCAACGAT	CAACACTTTT	CTCCTCGAAC	GTTATGCTGT	GCGGCGGTGG	540
40	CGATTGCGAA	TGATTGTTGA	ATTGAACCAG	AGAGCGGAAA	ATTTTCGTTT	TCACGTGACC	600
	GTATCTTACA	TAAGCTACTG	AACTATATGA	AATACCGACG	TTGCTCGAGG	ACCGCTAGCG	660
	CAGTGTCTCA	AGCAGTGATC	ATGAGATTGA	GTTGTTCTGA	TGTGTACATT	GAGAGTACTG	720
	GG						

1669UP

	GATCAACAAG	TGCAACAGCA	AGGTGCAGTT	GCGCCATGTC	CCCTCGGGGA	TCGTGATTGA	60
	GTGCCAGGCA	ACCCGCGAGC	GCGAACAGAA	CCGCAAGCTG	GCCCCGCGAG	AGCTAGCCGC	120
	CGCGCTGGCG	CAGCCCCCGG	GTAGCGCCAG	CGAACGCGAG	CTGGCGTTGC	GCACGTGGGC	180
50	GCGGCAGGGT	AAGCACGCGC	AGGCGCGCAA	GAGCCGCGAG	AAACACGAGC	GCGCCGCGC	240
	CGAACGCGAG	GAGCTCGCGC	GCGCCGCGCA	GCGGGAGGAC	GCCGAACCTT	TGCGTCAGCT	300
	GCTCGCGAAG	CCGCCCCGCA	CCTCCTAGTG	CCCCGCGGGG	CCGCGGGGGG	ACGCAGGGGC	360
	GTCTTTTTTCG	GCAATTCCAA	ATAGACACCC	TAGTCGCCTC	TGCTGCCCGC	GAGCGCAGAG	420
	CAGGCAGCTA	GCACACCACC	GTCCACGCGC	AGCGCTTTTG	CTGGCGAGTC	GTGCCGAGT	480
	CCGCTGGCTC	TGGTGTGCAC	ATGCCGCTCC	GCGGTGGCAC	CGCAGTGCAG	AGCTACCTAC	540
	GTACGTTTGC	AGGCTTCGCA	GTACGCCTGA	TACTGGCTCT	GGTGAAACTT	CCCACAAGA	600
55	GTAAATCTC	ACCAAAGAAC	AAAAAGATAT	GTTAGTGAGG	ATATCTCACA	TTCTGTTACT	660

EP 0 866 129 A2

GGAAGTACAC AAAGT

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1670RP

	GATCCGCGCAA	GATCGTCGTT	CAGTTGACCG	GCAGATTGAA	CAAGTGCGGT	GTCATCTCTC	60
	CAAGATTCAA	CGTCAAGATC	AACGACGTCG	AGAAGTGGAC	TGCCAACCTA	TTGCCAGCCA	120
5	GACAGTTCCG	CTACGTCAATC	TTGACCACTT	CCGCCGGCAT	TATGGACCAC	GAGGAGGCC	180
	ACAGAAAGCA	CGTTGCTGGT	AAGATTTTGG	GTTTTGTCTA	CTAAGCGGCT	GCTATATAGC	240
	GTATCTAGCT	CTAATGTACG	ATACTCAGTG	TCTATTACGA	CGGCCGCGAG	CTCCACGCGC	300
	CACATACGAG	GCCAGCCGGC	GACGGCAAGC	GGGAATTCAG	ATGCGTTAAT	TAGCAGTAGA	360
	TTAGTAGTAT	ATATGTACAA	ACAGCATACA	CATGAACGGC	GTCGCCGATC	ATAATCTTCT	420
	ACCTCTTCTA	CCACCCCTTCT	TTCTGGTAGA	GTCGGATGGG	ATAGGAGTGA	CGTCCCTCGAT	480
10	ACGGCCGATT	CTCAAGCCGG	ATCTGGCCAA	AGCTCTCAA	GCAGCCTGAC	CACCTGGACC	540
	TGGGGTCTTG	GTCTTGGTAC	CACCGGTAGC	TCTGATCTTG	ACGTGCACAG	CAGTGATGCC	600
	GACCTCCTTA	CACCTGGCAG	CGACGTCTTG	AGCAGCCAAC	ATGGCAGCGT	ATGGAGAGGA	660
	CTCGTCTCTG	TCGGCCTTGA	ACTTCATACC	ACCGGTA			

1670UP

	GATCTATTTG	TGCCGTCCGC	CATTAAGCAA	GCGGCAAGCA	TCGATCCAA	TCATGAGAGT	60
	ACCCTCGGGC	TTTCACTTTT	CAAGCCTTTA	TCAACAAATC	TGGTACACGA	TACATCCATC	120
	GCGACAGCAC	ATATACCAGA	ACGGGAAAGC	CGACAAGATG	GCACTAGACT	CTGGTAGGTA	180
20	ATCTGAGTTC	GACCATATCC	ACTTCGTTAA	TGGTGATAGT	TGATAAAAAG	AAACGATACT	240
	GAAAATTTTA	ATGGTTACCA	ATCTCATCTC	ATCGCCATAC	TGAAAAGAATA	TTGTAGGTCT	300
	CGCAGTGGAA	CAAGGATCAA	GCCCAGGCTA	AGACAATAAT	GGTTGCAGCG	GAGGCAGTAC	360
	AGGAACCTACC	CCCAGATGAA	GAAGAACTGG	CCTTGGCTAA	GCTAGTGTTT	GGCGACACAG	420
	CAGACTTCCA	TGAAGCGCTG	CGAAATGCAG	ACCTTAATTA	TGTTTCTTCA	GATGAAGACG	480
	TATATGGCCA	GGAGTTCGTC	AGTGAATGACG	AAGAAGGGAC	TGAAATTGGT	CACCTGAATG	540
25	ATGACCAATT	GTTTTTTTGTG	GACGAAGGTG	CAGATACCGA	GGGAAGAGCA	GATGGAGAAC	600
	CGGAGGCCAT	GGAGGTGGAC	CAGGTTAGCG	AGGAAAGCGA	CTCCGGAGAG	GAAAGCGGTA	660
	GCAGCGCTGC	ATGGTCAGAT	TCGGATGACG	AACACTTAAA	CGTTACAATA	GGG	

1671RP

	GATCGCTTTC	AAACCATCCT	GTAACCTACG	TGAACCACAC	TTTACAAGAC	AACGGCATAT	60
	CGACAATCAC	AAGACTTCCT	CGAGACATGC	CCGCCACCAA	TCTTCATCGT	GTAAGTACGG	120
	ACTATAATCC	AAGTGGCCAT	TTGAAATTCG	AGCATGATGC	CACGCTTTCC	AACCTGAGCT	180
	CGAAAACCTGG	AGATGTACAT	CGGCCTTCCA	ATTCTCTTTC	GAGTTTTAAT	GGAGCACAAA	240
	AAAGGGCTAG	CATCCCAAAT	ATCTTAGGCT	CTGCTCCACT	TAGTAATCAA	TCAAGAACTC	300
35	CAGACAACCG	TTTACAACAT	GGTACATCGA	TCCATGAGAA	CCCGCGGTTA	GAATTAACG	360
	GTGATCAGTC	TTTACTCTTT	GGCGGTAAAT	CAGGGCAGGC	ATCGGGTAAC	TTGGCGGGTG	420
	TTTCACCGGC	CGAAAACCTC	CGAAGGAGCA	ATTTCGATGA	TCAGAGCCAA	TATAGATTAC	480
	ATTCCAACGC	TTTCCATTCC	ACTGCCCTTC	CAAACGAACC	TTCTAAGAAC	ACTAGTCCAG	540
	GTACAACCTGT	TGCACCTGCG	AGCGTTGTTG	GTACAAACAC	AAGGAACACA	CAACGTGGAC	600
	CCACGGGAGA	TGTCTCCCAA	GAATCAGTCG	AACAGCCGCA	ATCAGCTTCG	CGCGCATCCG	660
40	ATGAATCTAG	CGCAAGAATT	ATGTCGCCCTA	GTCATCATAC	GGAGCCAGTA	GTGTCTGTTT	720
	CGACAATCTC	TTCTAACACA	CGC				

1671UP

	GATCAGGGAT	GCGGAGGACA	TTCCGCGACG	TTATCGGCGA	GCACGACCTA	CGCGTCTGGA	60
	ACTATGTCAA	GTACGGCAAG	AAAGCTATTA	AGGCCTTCGG	CTTCTCGCCA	GACGCATATA	120
	TTCAACAGAT	CATCCAGCTA	GCCATCTACA	AGTATGTGGG	CAGACAATTG	CCAACCTACG	180
	AGGCTGGGTC	GACCAGAAAG	TTCTTCAAGG	GTAGGACCGA	AGCGGGCCGC	GGCGTTTCTC	240
	CGGCCTCCGC	CAAGTTTGTG	AAGACTTGGC	AGTCGCCGGA	AGCATCTCCA	AGTGAGAAGA	300
50	TTGCTGCTCT	ACGTGAGTCT	GCTAAGAAC	ATTCTGCTCT	GCTAAAGATG	GCGGCGGACG	360
	GCCAGGGTGT	TGACCGCCAC	TTCTTCCGTA	TGAAGAATAT	GTTGCGTGAT	GGCGAGGAGC	420
	ATCCTGCACT	CTTCCGCGAC	CCGCTGTTCC	AGCACTCCTG	CACGTGGTAT	GTGTCTACCA	480
	GTCAGCTATC	TTCCGAGTAC	TTCCGAGGAT	ACGGCTGGTC	GCAGGTGAAC	GAAAATGGCT	540
	TTGGTCTGGC	GTACATGATC	AACAATGACT	GGTTACACAT	CAACATTGTT	ACMAAGCCTA	600
	AGAAGTCGGG	CTATAGTGTG	CACGAGCTTT	CACTACTACT	TGACCGAAGC	AGCAAACGAG	660
55	A						

1672RP

	GATCGTGTAT	TTGTCAAGCC	CATCCAAGCC	CTCCCCCGCA	CCCAAACCCA	CTATGATGGG	60
	CAAGAAAGTGC	TCCAACGTCG	GATGGGCAGC	CTGCAACAGT	TCTCGTCCCT	CCGCGCTCGA	120
5	GAAGAGACGA	AGTAGTCTGC	CGAATTTACA	GGCGTTGGGC	GGCGTGGTTA	GCAGGACGTT	180
	GGACAGTGCC	CAGTGAAAGG	CAGATGAGCG	CGAGTGGCTT	TTTGGCATGG	CAGATCCGCA	240
	GAAGAGATCT	CTCAGGTTGT	GCACAGCCAT	GCCAGACGTT	ATTATCAACC	CGCCGAGGTC	300
	GCGGTACCTG	GACAGGAGGC	GCCCGAGCGC	ATACTGGTCC	CGCAGGTCGT	TTCCCGCCGC	360
	CAGTGATATT	TGGACCAGCG	GTACCGGGAC	ATCCCAATCG	TCATCCACGC	ACTTCGAAGC	420
	GGAGAACGCA	ACTTTTAGGG	GGACCCAAAC	GCCATGGTCT	ATGCCGCGTT	CTGTGAGCAC	480
10	AGCGCATAGC	GGGCTGCGTA	TGTGGTTGAT	GGTGTCCGCG	ATGTCGGTAA	CTAAAGCCAT	540
	GCTTGATTTG	CTATGGAAC	CCTCCTCGTA	CATCCGGGTC	GAGAACCCAT	AAAAATCGTA	600
	TATCAATTCG	TTCTCCAACG	GGT				

1672UP

	GATCCCAGAT	TAGATATTAC	TTAAACGTTT	CACAGCTTTT	TGATGGCCTA	GTTCTGCTGC	60
	ACGTCCTATA	TGGTCCATCG	CCCTGTGCAT	GTCGGGATGA	CAGCCGACCG	CGTGCTCCGT	120
	ATAGAAGCCC	AAGGCATACT	CCGCTTTCCG	TAGCCGGCCT	TCGGAAGCAA	TGGATGCTTT	180
	ATACGCCCAT	TTGTAAGATT	CTGAAGCGTT	GGGTTCCAGC	ACGCCCTTGA	CACCAGTTAG	240
20	GTACCAACCA	CTCAAAGCGA	GCATAGCCAT	GGCATTTCCC	TTTGGTGCTG	CGTTTGACGC	300
	CTTCAAGTAC	CACACGATGG	ATTTCTCAGG	GCTATACGGC	AAGTGTAAAT	CAGCGTACTC	360
	GTAGCAGTGT	CCCAGCTTCC	ACTGAGCAAG	CGGATAATTA	AATTTAATGG	CACATCTGAT	420
	GTAAAGGTCT	AGAGCCTTTA	GGGTATCTTG	TGGAACGTGC	TGCAACTTGA	CAGCCTGCTG	480
	GAGCTGTGGA	TGCAAACAAT	CAAATTCATA	GATCTTTGCG	AGTTCTGTATA	ACGCCTGGGG	540
	AGAGACGGTC	TTGTGCTGTG	CAGCAGCCCG	CTCGAACCAT	CGTATAGCAG	AAATGACATC	600
25	CTGTTCAACA	ATAATTTTAC	CTGTGTATC	ATCCACCAGG	CCATTAGTTT	GGGAACATAC	660
	CCAACCTTATA	CATGCTACTG	CTCTGTCCGG	AAGA			

1673RP

	GATCCCAGCT	CTTACGCTCG	CTCAATTGAA	AACCTTTTCT	ACACTAGCTT	TCTTATCAAG	60
	GAAGGACGGC	TAGTCCTAGA	AGATGACGAT	GAGGGCTTCC	CGGCCATCCG	ACCCAAGGAA	120
	CCCCTCCCGC	AGGATCCCGC	CGAAAAGGAA	CTGGAACGGC	AGCGACGGAA	TGACGCGCGC	180
	CAGAAGCATA	TCATCTTCCA	AATGGACATG	GCCACGTGGA	GGAAGCTTAT	AGACAAGTTC	240
	CACATCACAG	AGTCATTTTT	ACCGTGATCA	TGTATAAATA	GCGCGCATCT	ACGTATCACC	300
	CGCTGGCCCG	GCGCTGACCC	AACCAGGCAC	TGCTAGCAGC	TCATCTATCG	GCCACTTCCG	360
35	AATGGTCAGC	CGGGCAACGT	CTGTGCTCAG	GCCGTGTCCC	TCGTAGAGCT	CGATGCCCGC	420
	CCAGCCGATC	ATCACC GCAT	TGTCTGTACA	TAGATCTGGA	GCTGGATAGT	GAAAGGAGTC	480
	GAACGGTCTG	AATAGTTTCAG	TCTCGAGTCT	GGCAGCGAGG	CGCCGGTTGG	CGCATACGCC	540
	GCCGGAACAC	ACAAACTGTG	CCACATCAGC	AACCTTATCA	GCATTTGAGC	CGCAGCACCA	600
	GGTTAATCTT	GGTAATCAAA	TGGTCGAAAT	ATGGCTTCCT	GAATCTGAAG	TGCTGCTACC	660
	CGGCGTTCCG	CCTC					

1673UP

	GATCGCTCTA	CCGACGTACT	GCATGCCTGT	CTTGGTCTTA	AGTTAAAAAC	CACAGCACCC	60
	AATCGTTTAC	ACCGCAATCT	TAGACCAGGA	GCTAGTGCCT	GCGAGCCCTT	GTCGTTCAAA	120
45	TGGCAGGACT	GTTGTTTGGT	TGTGAACCTC	GCGGACTGAG	GAAAGGGGGC	GGAAGATCTA	180
	TTTTGACACT	ATTGCGCAACC	GTTTAGATAT	TGAAAGCAGG	GCAACACTAG	TAAAACTCGA	240
	AATTAGGACA	TTGCTGAACA	GATGTGAGCA	GAGGATTCCG	GATGCGCTTC	GAAATGATGA	300
	GGGCGCATGC	TGCATACCCT	GGCCGTGCGG	CGTAGTGTAG	ACCGTGACGC	GCATGCTGCA	360
	AAACAACGGC	GCCGTGGCGT	CGGCATGCAG	GTAGCACAGC	ACCTGCAGCA	GCGCAGGCGT	420
50	GCATCCAAGA	GTAACGCCAC	ATGTCGGGCG	CGTTGCTCCG	TATGTACAAG	TTATGTCATT	480
	ATTTCTACAG	ATATCATGTT	GAATATTAGC	CCGCGATCAT	CTACTCAATG	GTATCGTTTG	540
	GTCATCTCG	CTTACGTCAA	GATGCAGGCT	CCGCCCCGGG	ACTACGCGCC	AGGGTGCGCA	600
	GAGCAGTTTG	GTATAGGAGA	AGCATGATAC	TGCTTTGGAT	GCTGGTCCAG	ATGAACCTGG	660
	GGCCACACCC	GCTGAAGGCG	CCACCCAGTC	CCTCGTAGCG	AAGTACGACT	AACAAGCTGC	720
	GGAAGA						

1674RP

	GATCTCATTG	AGGTACACAG	ACACAGCTGG	CAGCGACGCC	CACGCCTGGA	TGGACGAGTT	60
	GGCGAAGCAA	TCATTCCGGT	TGTTTGGCCAG	CCCTGTGCTG	TGTTTGTCTT	TCCTCGTGGA	120
5	GCTCTGGAAC	ATAGCAGAAC	TACCAGGGGA	ATAGCCACGT	GTAGATCGTC	GGACCTAAGA	180
	TATAGTATGA	AAGTGCAAGT	GTGCCACAAA	GAAGAAGTCT	TTGTGGTATG	TTGTCCGTTT	240
	CGTAGAGAAA	GCTTCCGACC	TTATTAATAG	AGAGTGTACC	GTCGTAAACA	GAAGAGGGGT	300
	ATGTCACCCCT	GTGCAGCATG	TAGATGGACT	TGGGTATCTA	GTCAGCCGTT	GTGCTTGAAG	360
	GTGGACCAAA	CTAATCCTTA	GTGCATAGTA	TTTATGTGGG	GCGGCCTTTG	AACCAGGCTT	420
	TTGGGATGCT	CGAAGGCGGA	ATAATACTCC	ACGTGACAAT	AATATACGTC	AACTATTAAC	480
10	GGCTAAATTA	TCCCTTGCGA	GGAGAACATC	CCGTTAATTA	CAATTATCAT	TCTATATTAT	540
	AAACATATTA	TAAAACGTCC	ATCTTGCTAA	TATAAAAAACA	ATCTAGGTCG	GCTTACCAAC	600
	CATATTACAT	CAGTAGGCAG	CGCGATCTGC	ATCCGTCATG	GCGTGGAGTA	TCCAGTT	

1674UP

	GATCATCATC	AACTATATCG	AGAAGGAGTG	TGACCGCGGC	GTGCTATGG	GTAAATACCC	60
	GTCTACCCTT	GACCGGGAAG	CGGTCCGAAA	GCTGGTGCCA	AAAGATTTGG	AGAACTTCCG	120
	CGTAACCAAC	AGCCTCACGC	TGAACAGTCT	CTCCCTATAC	TTTCGCAACC	TAACACGGGA	180
	GCAGCGGGAA	ATATGCATAT	ACAACAACCT	CACCGACTGG	AGCTTGCTAA	TCCTTCCGGA	240
20	AGAGGAGAAA	ACCAAGTACT	GCAAAAGAAA	GCAAGGTTCT	TCGTGAGAA	AACAGTAATT	300
	GTAACATATAT	AATCTGGAGC	TTCTCCAGC	GGTAGAAGGT	CCCAATTTGT	AATGTACTAC	360
	TACCTGAGCA	CTTGTGTCCG	CCTCATCGCT	CCTTAGAAAC	TCGTGTTCAA	GAGCTCGGAT	420
	GGCATCTGAC	ACAAAGGTTG	CAGACGCAGG	AGAGTATATC	TCCAAAGCCT	TGGGTAACT	480
	TTCTAACCTA	ATATTTTGCA	AATAAAGCCG	AGTCGCAGTG	TATCACTGCT	CCAGTCAGTA	540
	GATTCTGACT	TCGTAAAATA	TGTGTTCTAT	GGGTGGAACA	TTTTAAGTCA	TAGTTTGTCT	600
25	TTTTCCCTTG	ATATACTTCC	AAATACATAT	ATCACTGAAG	TTCCATCGGA	AGCACCTCCA	660
	CAGTACGGCC	TAAGAAGAGC	AGAATAATTG	CTCCA			

1675RP

30	GATCCGTGCA	ATAAACCGCT	TGAATGCACT	GTGGAAGTAG	TTGCGGGTCT	CGATATCAAA	60
	GTGACAAAAG	AATATCTGCA	GGTTGTTACG	CAAAATGTCA	AGCACATATC	CACGCACTGG	120
	ACGCGAGCCC	TTATGCGAGT	AAGTTAGCAC	TTCAAATGCA	CCGAGCTTGT	ACTTGTGCGAT	180
	TCGCAGAAGG	CTTTCCAACG	TCGACAGCAT	GATCAGCTTG	TCTTCGTGGA	ACGGCTCCTC	240
	CTCTATCCCG	AGCTCCTGGC	CAATTTTGAG	AAGCGGTAGA	AGGAGAGCAG	GGTGCCCTTG	300
	CATGTTCCCG	AAGATAAACA	GATCGAAGAC	CTTCGGCGGA	ACGGTCCGAA	AGAGCGGCTC	360
35	CAGCAGTAT	AGTTGCACTC	GTTTCGCGCA	GGTGCCCTCA	AGAAGATGCT	GAACCACTTG	420
	CTGCTCCAC	AACTGCAGCC	ACATCTCCAG	TTTATCCTCT	GTATAGTGTC	GCACATATAT	480
	ATTGGCCAGC	AAACTCGTCA	CACCTCTTGC	AACCGCCGTC	GCAAGAGAGT	CCGACCACAT	540
	GTATCCCAAG	GCCGTGCGAA	TGAACCTCCG	CCGGACCTCT	AGAACAATTTC	CCAGGTCAAT	600
	CCGCTCCGAT	AGCACGTCCA	CCATGAAGTA	CACGAACCTC	TTTGAAGGAC	TCAG	

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1675UP

	GGATCCGCTT	CCACACCGAA	AACGCAGAGG	ACCAGGACCG	TGTCTCGAAT	GTCGTTGGCG	60
	ACGCCATCAC	GCACGTCAAC	ACGCTCTTTG	GCGACAACGG	CATTACGCCC	TACGTTTCATA	120
45	AGAACATCGT	GTTCGTCCAG	CAGTCCGGCC	TGTCCGTGCA	GGCCCTCAGG	TTCTGTGCTCA	180
	ACCACTACAA	CTCGGTGAC	GACACCCCTG	GCTCCACCCC	CGCGCACTCC	CCGGCTGTCT	240
	CGCCCGTCAT	GACCCCGGTC	AATTCTCTCG	TGGCCATGTC	TCCAAGCACC	GCCGCATCTA	300
	AAACCCCTC	GGCCGCGACC	GCAACAGCCA	GCTACTTTAG	CAATGGCCGT	TCCACGAGTC	360
	GCGTCGAGTT	TGTCTGTGTC	ACTGGGACTT	CATCGCCGGT	CCTGGAGCCG	CTGTTCCAGT	420
	CTATCAATGA	ACTGGCCAAA	AAGGGCGACC	TGCCCTACGG	ATACACTGTC	GCCTACGGCG	480
	ACGCTATTAC	CACATACGCT	AAAGAGCAGG	TCGAAGGTTT	CAACGAATTA	TTTGGCATTC	540
50	TAGACAAACT	GAACCTTCATT	GGCTGCTGAG	CGCCCTGTT	ACATAGGTTA	TTAATCAATT	600
	AAATCCTTTT	TCTGGAACCT	TATAGAGCCC	TGCACCTTGC	GCTCCGAGCG	CATATCCTTG	660
	CTGACTAGTT	GTCAGCGGTA	GCCTTTAATA	AATTACGTAA	TATGTGTTAT	TATCA	

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1676RP

	GATCCCGACA	CCAGCATGCG	CTCGTCGAAC	GGGTCGAAGT	CTGTGTCCAG	CACCTGTGCC	60
	GTGTGCCCCG	GGAAACAGAG	AATTTGGTCT	GGCGCCTTGC	CCACCTCCTC	CACCGGCACT	120
5	ACCGCGAACG	CCCTTCGGCC	CGACGAATTC	CACGTAACCG	AAATGAACTT	GCCGTTAGTC	180
	TTGATGAGAT	TGGAATCCCA	AGCATTGATT	GTCACTTTGA	GGTTCTCGTA	GAAGAGTTCC	240
	TTCTTTGTGT	ATTGTCCGAA	GACGTGTCTA	TACTTGGAAG	CCCGCACAAA	CTTCCCACTG	300
	CAGTGCCGTT	AGTTTGCCGT	CCGCACAAAG	TCCAGTCCTG	GAGAGTATGA	CATACCTCAT	360
	CCTTGCAATT	CTTTGGGGTT	TAGCAGCTCT	ATATGCGTGT	ACACCGTAAA	CATCCGTAAC	420
	TAAATATGTA	ACGTGGAAC	GAAGGGTACT	GGAATCTAAA	GGGGAAAGAA	GTACCCGTTG	480
10	ATGGTGATGG	TACTGTCAAG	ATGGCTAAAG	CGAACCTCTG	GCCTGGTTGG	AACTCAGAAA	540
	GGTCACCAGA	CTCTTCTTAT	TCTTGTCTT				

1676UP

15	GATCGCCCGC	CTCGTGCCCTC	GCCTGTATTA	CTACGCCACG	AAGCAATTGT	ATAACCCACA	60
	TATTGTAAAC	TTTGTAATAT	CCTCCATGGC	CTCGCCACC	CGACACGCCG	CCTTTCCTGC	120
	ATTCGGGTGC	CGGTGGCCGC	CGCGTTTCAA	CCTCGGCCCA	TGGCTCGCGC	ATTAGCTGCC	180
	AGTAGCGATG	CAACCCGAAT	GGCGAAGATG	GAGCCGGCAT	TGGTGGGTAC	GAATAAGCTT	240
	TTTACGCGTA	CTGTTTGCTG	GTCTAACGCA	TCCACGCCAC	GACGCTAACC	AGTATGAATA	300
20	CCGACCTCTT	TGCGCAGCTG	GTAATTGTGC	CGATCCTCCG	GTCCCCCATA	GCGTTTGTGT	360
	TGCTTCTATC	ACGGTATGCA	ATGTTATGAT	GCGTGTGTCC	GCGAACATGT	WCTAACAGGC	420
	GACAGCGTGC	TCGATACGCC	GTGCCCAGCG	CTGGCAGCCG	CACTGACGGT	GTACACAGTA	480
	GTGTGAATG	CGTGCCTAAG	CGCCAACCGG	CGCGCCAAGC	TGGCAGGCCG	TGGACGCCAC	540
	TGGAGCAGAT	GCCGGACGCG	ACTTGCCT				

1677RP

	GATCTGCAAT	TAGGGCATAT	AAACTGTGGG	TACTGTGTCA	TCAGTAGTCG	GCGTATGCAC	60
	TGGTAGTGCC	AACTATGCGA	ACAAGGGGAT	ATGAAGATGG	CCTGGCAGGG	CTTAATTTTA	120
	CATAGGCAGA	TTGAGCAATC	TTCTCTCTCA	AGGCCTGCCG	TTAGCTTTTG	TAGGTTCCGT	180
30	AGCGGGGCTA	GTGCCTCTTT	GTTGAACCGC	TTGGCCCTTC	GCTTCCACGA	TTTGTTC AAC	240
	TCGACTCTCA	TTTTGACGCA	TCTATATATC	TCCTCTGTGC	CGCCACGGAA	ATCCATTCCC	300
	AGCTGCAATA	TGTCGCCGTC	TTTCAAGGGG	TAGTCTTTTC	ACATAACCGA	TGCCTGTGCA	360
	AGCCGCATCT	GATTAAGGAA	CGTGCCGGAC	GAGGACTTGA	CGTCGCGCAC	ATACCAATTG	420
	CCCTGCTCAT	CCACCTTAAA	CACCCCGTGT	GTGCGCGACA	CAACCTTGCT	CTTGAATACC	480
	ACGGGGTGGA	AATGATCCGG	GAGCGAGCCG	ATCGCCTCGC	GAACCCGTTT	TGTGTAACGC	540
35	CCGATAACCA	ACTGCGAGCT	GGGGCCTGCG	GTCCGCACGA	TGGGATCAAA	AAAGAGCCCC	600
	GGATTATTCTG	TGGTGCAGTG	GTCAATGAAC	GGCGTTAACC	GGAGCGAGAA	GAA	

1677UP

40	GATCGTGGCC	TTAAGCCCCCT	CGCCGCCTGC	GCCTGCGCAG	CCCTCAATGC	ACTCCGTCCG	60
	CGTCCGCTAC	ATCCCAGAGC	ACTTCAGCGC	GCCGCTGCTG	TTTGCGCAGA	CGCTCCGCTT	120
	CTTTGCGCAG	CGCGGCGTCA	CCGCCAAGCT	CGTGCCCTTC	CCTAGCGGCT	CTGGCCACCT	180
	GATCCAGGCG	CTCGACGCCG	GCGAGCTCGA	CCTCGCGCTC	GGCCTCACCG	AGGCGTTCTG	240
	GCGCGGCATC	GCAGACACGC	CAGCCGCGCG	CGCGCCGCGC	TACCAGATTG	CCGGCACCTA	300
45	CGTGCGCTCG	CCACTCAACT	GGGCCGTCTC	CGTCCGCGCC	GCGTCGCCCC	TGGAGCACGT	360
	GGACCAGCTG	GACGGCGGCC	GCGTCGGCGT	GTCACGCGTC	GGCAGCGGCT	CGTACGTCAT	420
	GAGCTATGTG	CTCGCCCTGC	AGCGCGGCTT	CCGCCGGCCC	TTTGCCGCGC	ATCCGGTGTG	480
	CCACACCTTT	GCCGGCCTGC	GCGCCGCGCT	CAACGAACGG	CGCCGCGGAC	GCTTTCCTGT	540
	GGGAGCACTT	TACCTCCAAG	CGCTACCACG	ACGCGGGCGA	GATCCGCGCT	CTGGGCAACA	600
	TCCCCACCCC	CTGGCCCTCG	TGGGT				

1678RP

	GATCCGCTGT	CGGCATCATC	GGAGACATCG	CCTCCATGTT	CCCCGATGGT	AGGATAAAGC	60
	AATTGTAAGC	CCAGACTTGG	GTCAACAGAGT	TTATCAAGAA	AACAAGAAGT	AACCCCAACT	120
5	TTAGTCAGGC	AACTAAGGAT	ACTGCTAGAT	GGGCTAGAGA	ACAACAAAAG	CATCAACTAA	180
	CCCTATAGCC	TTACACTCCA	GAATAATTTA	TCTTATTACT	CATTTTCTTC	TGCGTTATCT	240
	CGCTCTCCTC	CTGTTATTCT	ATAATACTTC	CCCTGCATTG	TCTTCATTAT	TGTGTCGACC	300
	TCGCGACAGA	CCGCTTCGTT	GTCTCTTCTT	TTGTTTCGACC	CTGCACTGAC	CTGGCCATGC	360
	TGCTCTTTCT	AGTGGTTTGG	TACAGGTTGC	GGGTCTTTTT	ACACAACCTT	TCTACTACGT	420
	CTTCTATCTA	ATCCCATCTA	CTTTTCTACT	TTCTCTCTCT	ACTTTATCCG	TCGGACCCGC	480
10	TGCTCGTCTT	ACGTGGCAGC	TTGTAGCATC	TATATAATTG	TATATATCGT	GGTGGCAACT	540
	ATCTACGGCT	GCTATACATC	TGCTGCCCGG	TCTGATCGGC	CGAGCCGTTT	ACCAATGCAG	600
	TAAAACCACA	TAAACTTTTA	AGAGTTACAA	GCTCAAAAAC	GTT		

15 1678UP

	GATCCGGGTT	CGAGTCCCGG	GAGGGGCTGC	AGCGCACCAG	CGCTTCTTTT	TGGCGCTGGT	60
	AGTCGAGGAT	TGTTGACTGC	TAAACCCATA	CAACCACATA	TTGCACTGGT	GGCTTGCCCG	120
	CCTAGGCCGC	CCTGCGGCTC	CCGCGTAGCC	CGCCGGCGGG	ACCCACGCAA	CGAGACCGTG	180
	CGGGCCCGGG	ACGGCGATCA	CCAGCGGCAG	CCGGTGCAGC	GTAGGCGGGA	CAGCTGAAAA	240
20	GTTACTACAA	TTTGAGGTCT	CGCATACTGA	CACAGAGGGT	CTTACACAGC	ACCAGACGAA	300
	TCAGCAATGG	CTAAGCAATC	TCTAGGTATG	TGACAGAACG	ATGGTGGCTC	CGAAACATTG	360
	GGAATGAGCG	TCTCTGGCGC	TGCGATCCGT	GGTAACCTGG	GCATACGGCC	CAGCGCGCAG	420
	GCGGACCTAG	CATAATCCAG	TGCGTGGAAC	AAGTTGGTGG	CCCGGCACAG	TACTAACATG	480
	TCTGCAGACG	TTTCTCCGCA	CAGAAGAAAG	GCCAGAAAGG	CGTACTTCAA	CGCGCCATCT	540
	TCCGAGCGCC	GCGTGATCAT	GTCTGCTCCT	CTATCCAAGG	AGTTGAGAGA	GCAGTACAAC	600
25	ATCAAGTCTC	TACCAATCAG	AAAGGACAAC	GAGATTATGG	TTGTGCGTGG	CTCCAAGAAG	660
	GGCCAAGAGG	GCAAGGTTCT	TCTGTCTACA	GATTGAAGTA	CGCTGTCCGC	GTCGACAAGG	720
	G						

30 1680RP

	GATCCGTCTG	ACGGTGGTCC	AGTTCTGGAC	AAACGCCGTG	CTCTTTGACG	AGATCGTGCA	60
	GCCACTGGGC	GAGATCATCG	ACCTCTACAC	CCAGTTTCAGC	GGCGTCCACG	AGATAGACCG	120
	CGCTGTGGCG	AAGACATTTG	AGGAGGCGAG	GGAGGTATTT	TTGTGCGCCG	CGATGATTAA	180
	CGAGAACAGC	ATACTGATTG	GCCACGGCCT	GGAAAAACGAC	CTGAACGTAT	TACGGATTAT	240
35	ACATGATAAA	ATTATTGATA	CAGCTATATT	ATACCCGAAT	GGTAAGTTCA	AGTCTCTCCT	300
	CCGGAATCTA	GCCTTTTCAGG	AGCTCAGTAG	ACGGATCCAG	ACGGGCGAGC	ACGACAGCTC	360
	AGAGGACGCG	ATTGCAGCAA	TGGACGTCGT	CAAGCATAAG	CTGGGCATCC	CGCTCGACCG	420
	CAAGACGTGG	TAGCCCTACG	GCTGCTCCTC	CAGCCGCGTG	AGCCTGTCTT	CAAGCTGGTC	480
	CTGCCTCTCA	ATTAGCGTGT	GTATAAGCTG	CTTAAGGTTT	TGTAACCTCA	TCGCGATCAT	540
	CCTATCTTCT	GGAAGCTCGA	ACTTGACGTT	CCTGCTGCGG	GTCACGATCT	GGCTCTTGCC	600
40	CACCTTGTTAC	CTCGATGCCT	CCGGAATTTT	GCC			

1680UP

45	GATCGCGGGC	CGCGGTGGCC	GGCATTTCCG	GAAGCGGCCA	CGGAGCAGAG	GTGGCGCATT	60
	CGAATCGCAT	ACGTCTTCGC	CACGCCGGAA	AAAAAATTTT	CGGCTATATA	AGGAGAGGCG	120
	GCCGTCTTGC	TGCAGGCAGT	TTCACTTTCT	CTAAAACCAA	AGAACAATCA	TTTCTTTAGT	180
	CACCTCGCTT	CTTACACCGA	AATGCAATTC	TCCACCGTCG	CTTCCATCGC	AGCCGCTGCC	240
	GCCGTGCGCT	CCGCTCACGC	CAACGTGACC	ACGGCCACCG	CCACCAGAAA	CCAGACCACC	300
	TTGGTCAACA	TCACCCACTG	TGAGGACAAG	ACCGCATGCA	CTGCGCACGT	CTCTCCAGCT	360
50	TTGGTCTCCA	CCGCCACCGT	CACCATCGAC	AACGTTGTGA	CCTTGAGCGA	GACCTGGTGC	420
	CCACTATCCA	CCACTGAGGC	TCCTAAGCCA	CCAGTTTCCA	CCGCCAAGCC	ACCTGCTTCC	480
	TCCAACGCGA	CTGTTCTCTC	AACGTGAGAC	CAGTCGTCTC	CTCCTTCACT	GGTGCCGCTG	540
	CCAAGGCCCT	ACCAGCTGCT	GGTGCTTTGT	TCGCGGGCGC	TGCTGCTTTG	TTGTTGTAAG	600
	TTTAGTTCCG	CCGCGTGAGC	CCTCGTTTCG	TTTAGAGATA	TATAGGAACT	TATGTGACTG	660
	ATTCTAAGCT	TTTACACCAG	CATGATTTGG	TTCTGCGGCG	CACCGA		

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1681RP

	GATCATTCTA	AACAGATTAA	CCTTCCTCCA	AATTACTTTA	TTTCCTTAAT	CTCCGATAAA	60
	TGGTTACATT	GCGACAATAA	GGTGCCCGTG	GTGCTTACAG	ATATACATCT	ACCGAGAAAA	120
5	TTTCCGCCAC	ACACTCGTAT	AGAAGAAAGA	AATTTGATTG	AAACTTCTGA	GCTAGATCCG	180
	ACGTTCACTG	GACTCTTCCC	ATTTAAGGTT	TTCAACAAAT	TCCAAACTCA	TGTGTTTAAT	240
	GCCTTGATAC	ATACCGATGA	AAATGTATTT	ATTGGAGCTT	GTAAGGGCTC	GGGTAAAACT	300
	GCAATGGCAG	AATTAGCTTT	ATTGAGTCAC	TGGAGAGATG	GTAAGGGACG	TGCCGTCTAT	360
	ATATGTCCAT	CTCAGGAGAA	AATTGATTTT	CTGGTGAAGG	ATTGGCGAAA	CAGATTTTTA	420
	AATGTGGCAG	GTGGAAAGGT	TATTAATAAA	CTCACATTGG	AATTAACATA	CAATCTTCGA	480
10	ACGCTAGCCC	AGTCGCATTT	AATCTTAGCG	ACCCAGAGCA	GTTTGACCTG	CTTTCTCGTC	540
	GCTGGAAAAA	AGAAAAAAAC	ATCCAGACAT	TAGAGCTGTT	GATTCTAGAT	GATCTTCATA	600
	TGATCAGTAG	TGACTTGCCT	GGCGCAAGGT	ATGAAAATAT	AATATCCAGA	ATGCTGTTCA	660
	TTCCGGGTCA	ACTTGAAAAA	GGCCTTGCCT	ATAGTC			

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1681UP

	GATCAGGAAT	GATCCCTCAA	TTGTCAGGAA	TTATGGTTC	ATATTGGTTG	AATTTGCCAA	60
	GATTACTCCT	GATGGTATGG	TANTGTCTT	CCCCCATAT	TTATATATGG	AATCCATTAT	120
	TTCAACTTGG	CAGACAATGG	GGATTCTAGA	CGAGGTTTGG	AAATACAAGC	TCATCCTCGT	180
20	GGAAACACCA	GACGCACAGG	AAACTTCTCT	AGCTTTAGAG	ACTTACCGAA	AGGCCTGCTC	240
	GAATGGGCGC	GGCGCAATAT	TACTTTCTGT	GGCCCGTGGG	AAGATTCTTG	AGGGAATTGA	300
	TTTTGACCAC	CATTACGGTA	GGACTGTATT	GATGATTGGA	ATTCTTTTCC	AGTACACTGA	360
	ATCGCGTATT	CTAAAGGCGA	GGTTAGAGTT	CCTAAGAGAA	AACTATCAGA	TACGGGAAAA	420
	TGACTTTTTA	TCCTTTGATG	CAATGAGACA	CGCCGCTCAA	TGTTTGGGAA	GAGTCTTGAG	480
	GGGTAAGGAT	GATTATGGCG	TGATGGTGCT	CGCCGATCGG	CGATCTCAAG	AAAGAAAAAC	540
25	CAACTTCCAA	AATGGATCGC	ACAAGGGCTC	TCTGATGCTG	ACCTGAACCT	TTCTACTGAT	600
	ATGGCGATAG	CTAATACAAA	ACAATTCCCTA	AGGACGATGG	CACAAGCAAC	TGATCCGAA	

1682RP

	GATCGTAAAA	TTTGCTATAC	AATGGTTTGG	GTAGGTCCTT	TAAAAGGTCG	TCAATCTCAT	60
	AGTCGCTCAC	ATCAAGGGGA	ATGTTTTAAA	AACGCACTCT	CTGATGTGTA	GGCGGAGGAG	120
	GCCTTGCGTC	TCGCCGGTCC	CTGAAACGTG	AGCGGCGCGA	GGGGCCGTAC	TCTCGCGCCC	180
	GATACGTGCT	TTCCCCCAGA	CCCATGCGTG	AAGCTAGTCC	ATTACGTAAG	TCTCGACGGC	240
	GATATTGCTA	TAATAACAAT	GTAATCGTTA	ATACTCACGC	TCAAGTAACC	TTGCGGTGGG	300
35	TCATGTATCA	CTTACGGTAG	TAGTGCGGTG	TGTCTTTTTG	CCGTAGTAT	CCGATGAAGT	360
	TTGGTATCGA	GGAGAAAAAG	ATGTTTCATC	TTTCTCACCA	GTACCCTGGT	TCAAGTGTTT	420
	GTCAACAGAC	ATTGTCCCTT	CCAAACTATC	CTGTTTGAAG	GGCAAAGGCT	GTGTGTCAAG	480
	AACGAAGTTT	TCACCATTTT	TCCGGAAGGC	TCGGGACAGC	GATCGAAAGA	AATAGGATAT	540
	ATACGTACAC	CTTTCCTTAA	ATATCATTTA	AAATATCCTG	GAATTTTCAT	ATGTGGCCAT	600
	ACTGGCTCTT	CAGCTTTCCT	ATCCATGAGA	TAGAAGGAGC	AAACTGTGCG	AAGGTGCCCT	660
40	CCACAGTTAC	TTAAGTTTCC	GTAAGCAACA	AGGAGTCTGT	ATGCGGC		

1682UP

	GATCCAGTGT	GTACGGCCAG	AGTCGCGCTG	GGGCACCAGC	AGTACCTGCT	CCGTCTCGTT	60
45	GAAGTTCCGA	ACATTTCCCGT	CCGCATCAGC	ACCGCGCCTG	AAGTATCTTG	TACCCGCCCT	120
	GAATCTGCTC	CGGCGCGTGA	TCAGACCCAC	ACTAACTGGC	GTACTCTGCA	ACACAGTGTC	180
	TACCACTTTG	ACGTAGCCGT	AGATTAGCGG	CAGAACGAAC	TCGTTCCGCA	GAGCGTTTTT	240
	CTCCGCCAGG	TTTCGCAGCG	GCTCTGTGGC	ATAGTAGTTC	CAGAAGAACC	GCGTGTCTGC	300
	AGTGCGCCAC	GAGGCTGGCC	CCAACCCTTC	GTTGCGCTGC	ACAGAGTGCG	TCAAGTCATA	360
50	CGTGTAACGA	TAGTACAGCG	TTGCCTTCCG	GAGGTGGTGC	CGCAGTAGCG	CAAGATACTG	420
	GTTGTCTCTT	GCAGATGGCC	GGATACTGGT	GTTGACCAGC	ACCAAAGAGT	GCGCCGTCAC	480
	TTTGAAAAGA	GAATGGGCAC	CCAGGTTTCC	CACCACCTCC	ACGCGGTCCG	CCGTTAGCAC	540
	CACGCGACTA	TTGCGCAAAAT	GTAATATCCC	GATCAGGCCT	GCGATCTTGC	GAGTTTCTCC	600
	ATCTTTAGGG	AAATTGCTGG	GGTCTACGAG	TGTCACGCCC	GAATCGTGAT	GCGAGATAGA	660
	CAACACCGCT	TCACTCTGGG	AAGTATTAGA	TGGCTTGAAA			

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1683RP

	GATCTATATC	ACCAATCATC	ATGGTTTTGA	AACATTCCGT	GCTTAAAAAG	GGACACAGCA	60
	AAC TACAAGC	AGGCAGCAGC	AAGCACTCTG	CAGACTAAGG	GCAGGCCTCA	TCATAAGATG	120
5	CTTAGGGCTG	AGCTAGTAAA	TGCCATTCCG	TGCCAAGGTG	CTCAGTGTGT	CGCTGTGGTT	180
	GATGGCGTTC	GACAACTTGT	GGTGGTGCGA	AATAATAGGG	ACTTCTTGGT	GTACTCCAGT	240
	ATGGACGAGA	GAGGCCTGCG	TCTAGTTTCT	ACATATACAG	AATTGCTTGG	CCCGAATTAT	300
	GGTGTAGAAG	AGCTGCTGTA	CTCCGAACGG	CTGCGGACAA	TATTCGTCCG	CACGACCAAG	360
	TGCTTACTGC	TACTTTCATT	GAGCAACTTA	CAACATTACG	ACAAGATAGT	TGACAAACGA	420
	GGCAATTGACC	ATGCCCTGGCT	GTTTGAACAT	CCATGTGGGA	AGGCTGAGAC	GTGGATGACG	480
10	GTGCTTGTMT	ACTCGGTTCAC	AGGGTCGAGC	AAGATAAAGA	TGCTGACATG	GGTGGGGCGG	540
	CAGTTCCAAG	CGGTGCATGA	GGTCGCACTA	GGCACGCGAT	CGGAAGTCAT	CCAGCTCAGT	600
	AAGTGGCGGC	CCGCATGCTG	TGTGGTTGCT	TACCTCCGAC	GACTGTATAC	CA	

15 1683UP

	GATCTCGTCA	AATTCTGCTC	TAGCATTATC	AAC TTTGTGA	CCACAACTTA	GAATTCCCCC	60
	ATCATGCATT	ATGTTTATAG	ATGTACAGTT	CTAAAAAATT	CGGTAATATA	ATGAGACCTA	120
	TCTCTTTTTT	TCATCCTTAT	AGTCACCCAA	AGTTTTTAACA	TGTGACATGC	TGCCAGATTT	180
	ACAGTCACTC	GCGGCTATGA	TTTCTTGCA	AGACCTGCCA	CAATTATAAT	GTGTTAATAT	240
20	ATTGCTTCCT	CTGAGGTTGA	AGAGCGAGAA	AAGTTCACTG	CTCCCTAATG	TTAAATTCTT	300
	CTGGCAAACG	TAGCAGCGGT	TATCTTCATC	TACCACCAAA	AATTCAGATA	TGATCTGGGA	360
	TAAGCGATAG	GTGCTTCCGA	TGAGGTTGAC	TTTCAAAGA	TTGTTCTGTA	TACGCGATTG	420
	GTTTTTCTTC	ATGGACGCAC	TTTTAATCCT	TCTACTTAGG	AATTCGTTAA	GCGTGTATTAT	480
	CGGAATATTG	GGCGGCAGTT	TCTCAAACAA	TGTTATCGCA	TCTAGCTTCG	AACCAATCTC	540
	TAGCAGAAAC	AGATGAACGT	TTCTCCATCC	GCTAAATTCT	ACCTTCGCAA	GCAGCTTTTC	600
25	AAACAAGTTC	ATGAGAGCTG	CTGTGCCTGC	ATTTTTGTTT	GTGGCATAGA	GCTCATTACA	660
	ATATAGAGAA	GCTTGGTTAT	AATTCCTTAG	ATCATCAACT	AGGATCCCTA	ACGCTGTT	

1684RP

30	GATCTGTACA	CTTCAATATC	GAACGAAGTG	TCACCGGCAT	ATTCTGCAGA	GATTTGAAAA	60
	AGCCACCAAA	GCAATATGAC	ATCAGGGTAG	AGCTTCGAGC	GAGTAATCTC	CGGTGATTCC	120
	TCGATCTCCT	TTAACCAGC	AGCAAACCGT	GTCTCATGTT	GCTTTTCCCA	GCTAATAATC	180
	TCATGCACCA	CAGCCATAGA	TTTCAAGCATA	TGAAGGTATG	TTGCGCGCGC	CTCATTACAC	240
	CATTTGATAT	ATATTTTCCC	CACGCCATCG	ATGAACTTCC	CTTTCGTCTG	CAGCTTCCCA	300
35	AAAATAGGTG	TCAAAAGCAG	TTCTTTGTGC	AAGTCAATCA	GCGGATAAAA	GATGTCAAAG	360
	GCAAGAGAGG	CGAAGTTTTC	GTCCGTGGGC	AGCAACGCCG	GCGAGAATTG	TGCGCCGTAG	420
	ATTTCTACGG	CAGCATGGGC	CAGGTTTCTG	CTTTTCTCTT	CGAGCACAAT	AAGGTCAAAT	480
	ATGTAGCTCT	GGCGCTTTAC	TTCTCTAGGA	TTAATCTCTG	AAAGCTCCTC	GTCCGTCACT	540
	TTCCAGTACT	CGGTCCAAAG	TCCCACCGGG	CGGCTGA			

1684UP

	GATCCATGAC	GAGCAGCTGG	ACCTCGTCGC	CGCTCTGGGC	CTGGCGCCAG	AGAACAAGGA	60
	AACGCTGCAG	AACCTCCCGC	TCGCGCGCGT	CAGCGTCACG	TTCAAGGACG	TGGTGACGGA	120
45	CTACTGCGAG	GCGCACGGCC	TGCTGCTCGA	AAAGACGGGC	GACGTGCGCA	CCCTCCGCGT	180
	CTACCAGCAT	GCACGTACTG	TCCCGGTCTT	CACCGTCACA	CACGTACACC	GCCGCGGGCG	240
	TGTAGCTCTG	TGCGAGGACG	TGCTTTGGGT	TCAGGAAGGG	ATAGGCTTCA	AACCTACGTA	300
	CTTATACGAA	CTAGAAACTC	TTCTAAAGAG	CGCTTAGTTC	TCTCATATAT	ACAGGACCTA	360
	GTA CTCTTGG	CGCACTCAGT	GGCCCTCGTC	GCTTTTTCGC	CTCTCGGCCG	CGGCCTCCGT	420
	CTCGCGCAGC	GCC TGCTCCT	CGCTCTCCAG	CTGCTCCGCG	TAGTGCTCGG	GGTGCTGCCG	480
50	GAAGCATCCT	GAATCACCTG	GAATCTCCA	CGCAGTCAAT	CCCCTTAGGC	TGCGCCTCTG	540
	AGTACACGAA	GCACGCGAAC	GCAGCCTTGA	ACTCCTCGCC	GCACGGCCCG	TGCGCCATGC	600
	CGCCAGGCA	TGGGCAGTCC	CAGTTGATCT	CGCCCGTGTC	GGGATTGTAT	GCTCCTGCTG	660
	CCCTGCGCAG	CCTCACCCGC	GCTAGCTTTG	TCCTCCGCGG	CGCTCGG		

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1685RP

	GATCAACTTC	GCCTAATCCC	TTAATCATTG	TCACTGCTAA	CTTGAACCTA	GTCTGTGTGT	60
	ATGCCTATAG	TGAACGTTTA	ATGTGATGGT	TTTATAGTAA	TCGATGGAAC	TTTATCCGCG	120
5	AAGCCTCAAG	CTGATCATCA	CGTGAGTAAC	CGTCGATATG	CAGAACAGAG	GATACCATAA	180
	ATTGCTATTA	GTAATCAATT	AATAGACTTA	CATATAGCTC	AAAGCTGATC	ATTGATGCGT	240
	CTCAAACCTC	TTTCATCGTC	TGAACCTTTC	GGATTTTCAC	TTCTGTATC	ATTATACCAT	300
	GTATAATCCT	CTAGTACGCT	AGTAGTCTAG	TATCTCGGAT	AACCCCCCTA	TATTACATAT	360
	AATATGAGTA	AAATACAGAA	TGACGTTAGC	GGATAATCTA	AGGCTAAGGT	TGCCTACACT	420
	AAGTTAACGG	GGGGCTTCTT	ATCTTGACGC	TTGTCTCTCT	AATCAATAGA	ATTGCTTTTC	480
10	TTTTTCCACT	ATTTGGTCCC	TGGCAAACCTG	CGAGCCACCC	CGCGTATCCT	TAGCCTCTGA	540
	GGTGTCTCT	TCGACATCAC	CTTCGTCTCT	CGGGATCTCT	CGGGACGTGG	TTCAACTGTA	600
	CGCTCGGTGC	ATATTTAGTG	TGCTCAAGGT	TGCTGAAAAT	AGATGCGAGC	ACCTTGTCCA	660
	GATATT						

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1686RP

	GATCCTCTCC	GAGGTCAAGA	GTGTGTGCAT	GAATTAACTT	CATTTTAGGA	ACAAACTTGT	60
	CTAGGGTTCC	CGTACTAAT	TCCTGCTCGA	CTTTGAAATC	CCAAAATTTG	ACAGTCTTGT	120
	CTGCGGACGC	AGTCACTAGC	CTCTTCCCCT	CACTAGTTAG	GTCTAAAGAC	CAGATTGCAG	180
20	CGGTGTGTGC	CTCTTCAATA	TTTTCTAGCA	TAGTAGAAGA	TGCGAGATCA	AATAGCTGAA	240
	GTTGGCCCGC	TCTTGTAACC	AGAATAACCA	AGGCGCCACC	TGGTAAAAAC	TTACAGCATA	300
	AAGCATAGCC	ACAGTCAAGA	TTGCGGATAC	AAGTTTTAGT	CTTGATGTTT	CAGACCTTTA	360
	GGTTTCCATT	TGAAGCAGTT	GCTAGTAGCT	TATCATCGCT	ACTGATGTCT	GCAGCACGTA	420
	GATCAGTCTT	ATGGCCCGGC	GATTCGATAC	TATGCAATTT	GATCGCAGTA	GGCTGGAGCG	480
	GTTCTTCTTT	TTTGTATGGG	ATTGAGTAGT	ACTCTATAGT	GTTGTTTGCA	GTCGTGATCA	540
25	CCAGTTCCAA	TTTAGATGGG	GTACAGACCG	TCCATGAAGA	TGCTTTTAGC	TTAAATAGGG	600
	ACCTTACGAG	TTGGAAAAGG	ATGCAAAAGT	AAGTTCCGAT	AC		

1687RP

30	GATCAGGACA	GTAGCAGCTT	GAATGAGTAT	CAGCAGGAAA	AGCCTAGCTA	ATTGGCGCGA	60
	GTACAATTAC	AAGTACCTGT	CTGACTACTT	CTTTTGTGTT	GATGCCATAT	TTTTTAGGAT	120
	GGCCTGCAAC	GGCCCGGTGG	GGGCGCCATC	CAAAATTTATG	GAGTTGAAGA	GCTGTTCAAT	180
	GCCCTTTATC	CCATCTGCAC	CGTCTTTATC	GCCGAACATG	GCATGCAACT	CTTCAAGCAT	240
	GATATCTTCT	TCCTCGTGCT	CTGATCCGGC	GTTGTCTGCG	TTTGCGCAGT	CTTCGTAGGC	300
35	GCCATTTCTG	TAATGTTGAA	GCTGTTCTTT	GTTTATCTTC	AGACCCCTCC	TCAGGAAATA	360
	TTCAAAAGAAA	TCGTCTTCAC	TAATATCTAC	GCCTTCAATC	TCGAAAAATG	TCCGAGCCTC	420
	TTTATCCCCA	GCTGAAGACC	CCTGACCAGA	AACATGCTCA	TTGCTACCTT	CATCGTCATC	480
	TTTAATATCT	GTCAGGAAAG	TCTCCAGCGA	CAGGGCCAAG	GCATCCATAG	ACGCTCTTTT	540
	GTCGCGAGTC	GGTACCTCCG	TAGTTAATTC	AGTCGTAGAG	AACTCCACCG	GGCGCTCTAG	600
40	GTGTTTTGTA	TGTACCAGAG	CGCTTACTAG	GTCACCTCT	AACTTTCTCT	TGGGTTTCAGC	660
	TGTCGTTAAC	TGGCC					

1687UP

45	GATCCGTTCC	AGTTTGGCCA	GCGGAAGCTG	GCGGACGAGG	CGGACATCTG	GGTTCATAAC	60
	GCGTGGGATA	ACGTAGACTG	GGGTGACGAA	CAGATCCGGC	TCGCAAAGGA	GAAGATAGAA	120
	GAGCAGAAAG	AATACCCGGT	GCAGGAGTTT	GACAAAAGC	TGTATCATAG	CAACCCCGCA	180
	AGGTACTGGG	ATATATTCTA	TAAAAATAAC	AAAGAAAAC	TCTTCAAAGA	CAGGAAGTGG	240
	TTGCAGATTG	AGTTTCCCTC	TCTATACGAA	GCTACCAAGA	AAGATGCTGG	TTCAAGTACT	300
	ATCTTCGAGA	TTGGGTGTGG	TGCGGGCAAT	ACCATGTTCC	CGATCTTATC	TGCAAACGAA	360
	AACGAACACT	TACGCGTTGT	GGGTGCGGAC	TTCTCCCGCA	AGGCGGTGGA	ATTGGTAAAG	420
50	ACGCTGCAAA	ACTTTAACCC	CGCGAATGCC	CACGCGACGG	TATGGGACTT	AGCCAAACCT	480
	GATGGTCTTT	TGCCCCGATG	TGTCGAGCCG	CATTCCGTCG	ACATCGCAGT	AATGATTTTT	540
	GTTTTTAGTG	CCTTGGCGCC	CTCACAGTGG	GCCCAGGCTA	TGGATAATTT	GCACAAAGTT	600
	CTAAAACCAG	GCGGTAAGAT	CCTCTTTAGA	GACTATGGCA	GGTATGACTT	GGCTC	

55

1688RP

5	GATCTTGTG	AGAACACTCA	ACATCGGCGT	AATTGCAGAG	CCCCCGGTGA	CCATACCGAT	60
	TTTCTTGTA	GCATTCTGTA	CATAGCTGAA	CCGTCTTACA	GGACCTTTGA	ATTCCACAGT	120
	TTGGCCTGGC	TGTAGCCGAG	CAAACCATTT	GGATACCTTA	CCGTGACAT	AAGATTTGAC	180
	AATGATATCG	AAATGGCCCT	CGGCAAATTT	GTTGGAGATA	GGCGTGTAGT	AACGCACTTC	240
	TTCTACACCA	TCCAGCATCA	CCTTCGCAGC	TAAATGAAAG	CCAGTAGGTA	TATCAAGAGT	300
	TTCCACGCTT	GAACGGAGCT	TGAATCTGTA	TATCGCAGCA	TTTTTGCTTA	GAACGATCCG	360
	TTCTTCCAAT	TCTAATGGCG	TCCACTCATT	TGGAAGAATT	GAAGTCCTGC	TTCTGTATGC	420
10	TAGTAGCAGG	CGTGACCTTA	CAAACATTGC	CAAAGCTAGA	ATGCCTAGAA	GGTACCATGC	480
	GTTCCCCGCT	GACCAGGCGA	TAACAAGAAC	GCCCAATGTA	AAGATGCCGC	TGGGGATGAA	540
	GATCCCATGA	ATGGGATCAT	CCAATATCTC	CATACCTCTG	CGTTCGGTCA	TACTAATATT	600
	TTGAAAGCTC	GTCGTAGCTA	TGCTCTAGTA	AGGATGAGAA	CGGTAAATAT	ATGCTTCCTC	660
	CTAGTTCTAT	AAGCACGGAC	TCCTTTGCAA	CTGGTGAAGT	ATCGTCTAAC	GGTCAT	

1688UP

20	GATCAGGCCG	GACGGTACT	TGCAGGAAGG	CCTCACGAAA	CCCAAGGGGG	GCGAGGAGGG	60
	CTTCTCGACG	TTTTTCAACG	AGACGGGCTC	GGGCAAGTTC	GTGCCGCGCG	CGGTGTACGT	120
	GGACTTGGAG	CCGAACGTGA	TGCAGCAGGT	GCGCACGGGC	GCGTACCGCG	AGTTGTTCCA	180
	CCCGGAGCAG	TTGATCAGCG	GAAAGGAGGA	CGCGCGGAAC	AACTACGCGC	GTGGGCACTA	240
	CACGGTGGGG	CGCGAGCTCT	TGGACGATAT	CCTAGACCGC	ATCCGCAAGA	TCTCGGACCA	300
	GTGCGACGGG	CTCCAGGGCT	TCCTCTTCAC	GCACTCGCTT	GGCGGTGGTA	CGGGCTCCGG	360
	CTTGGGGTCT	CTGCTTTTGG	AGCAGCTTTC	TATCGACTAC	GGCAAGAAAT	CGAAGTTGGA	420
	GTTTGCCGTG	TATCCCGCGC	CACAGGTGTC	CACCTCGGTC	GTGGAGCCAT	ACAACACCGT	480
	GTTGACCACC	CACACCACAT	TGGAGCATGC	CGACTGTACG	TTTATGGTCG	ACAACGAGGC	540
25	CATCTACGAG	ATGTGCAAGA	AGAACTTGA	CATCTCGAGA	CCTAGCTTTG	CGAACTTGAA	600
	CAACTTGATC	GCCCACGTCG	TCTCCTCGGT	GACCGCGTCA	TTGCGTTTCG	ACGGCTCCTT	660
	GAACGTGGAC	TTGAAC					

1689RP

30	GATCGTGCAC	AAGTTTGACG	AGCTAAAGCT	AAAGGAGGTG	TTGTTGAGAG	GTATCTACGG	60
	TTATGGTTTC	GTTGACCCAT	CTGCCATCCA	GCAGCGTGCG	ATCTTGCCCTA	TCATTGAGGG	120
	CCACGACGTT	TTGGCGCAGG	CCCAGTCCGG	TACCGGTAAG	ACTGGTACCT	TCTCGATTGC	180
	TGCGTTGCAC	AGAATCGACG	AGAGCATCAA	GGCCCCACAG	GCGTTGATCC	TAGCTCCTAC	240
	CAGAGAGTTG	CGGCTACAGA	TCCAGAAGGT	TGTGATGGCG	CTTGCGCTGC	ACATGGACGT	300
35	TAAGGTCCAC	GCTTGTATCG	GTGGTACGGA	CCCTCGTGAG	GACGCGGAGG	CCTTGAGAGC	360
	CGGTGCGCAG	ATTGTCTGTC	GTACCCCGCG	CCGTGTGTTT	GACATGATTG	AGAGACGTWA	420
	CTTCAAGACT	GACCACATCA	AGATGTTTAT	CCTGGACGAA	GCCCACGAGA	TGTTGTCTCT	480
	CGGCTTCCAG	GAGCAAATTT	ACAAGATTTT	CACCATGTTG	CCACCAACCA	CCCAGGTCTG	540
	GCTATTGTCT	GCCAECATGC	CAAAGGAGGT	GTTGGACGTG	ACCGACAAGT	TCATGAACAA	600
	GCCCGTCCAG	AATCTTGGTC	AAGAAAGGAT	GCCTTGACCT	TGGGAGGGTA	TCCAGCAGTA	660
40	CTATATTAAC	GTCGAGAGCG	AAGAGTACAA	GTACGACTGT			

1689UP

45	GATCGCGCTG	AACCTCAGCG	AGGCACGGCT	GGTGATCAAG	GAGGCGCTGC	AGCACCGGCG	60
	GCGGGTGTTT	GGGCAGTGGC	GGGACGGGCT	GGAGGAGGAC	GAGGCGGACG	GGGGAACACA	120
	ATATGACGCA	GGAGAAGGAG	CTGGCGATGC	TGGACAAGCT	GCTGGAGAAG	ACGACGGGGG	180
	GACAGAACCA	GGCGCTGAAG	CAGACGATGG	TGTACCTGAC	GAACTTCGCG	CGGTTCCGGG	240
	ACCAGGAGAC	GGTGACGGCG	GTGACGCAGC	TGCTGGCGTC	GACGGGACTG	CACCCGTTTC	300
	AGATTGCGCA	GCTGGGGTTC	CTGGCGTGCG	AGGACGCGGA	CGAAGCCAAG	ACGCTGGTGC	360
	CGAGCCTGGG	GAACAAGATC	TCCGACGAGG	ACCTGGAGCG	GATCCTGAAG	GAGCTGTGCA	420
50	ACCTGGAGAC	GCTGTACTAG	ATAGCTACAT	AGACAGGAAG	AACTTGCCGC	CGCCGCGGCG	480
	CCACCAAGTG	TCCGAGACAG	AGTGCGATGT	GTGCTCGATG	TCCAGGCGCT	CGCGGCGGAA	540
	GTTGCAGACG	CAGCGCTGCG	CGAGACGCGC	GACGTGCGCG	GACGGGACG	TGCCGTAGGG	600
	CACGTGGAAG	TTACCGATCT	CCTCGAAGTG	GTGCACCTCG	TCCGCGCGCA	GGAACAC	

1690RP

	GATCTGAAAC	TAATGTCATC	CGCGGAAGAA	CATACTAAGA	GCTCATCGTT	ACATCGAGAT	60
5	GAGACAAAGT	ACCTGATGTA	TAAGAGTTTT	ATTGACATAT	GCGCTCGGAG	GCAAACGGCA	120
	GGCTACCGCC	TGCCCCGTGT	TCCGCTCTACA	CATGACAACA	TAATTGTGGC	AATGTCAGGC	180
	GGCGTGGACT	CTTCAGTATG	TGCTGCTTTA	TACGCTCACT	TCCCAAAAGT	CCGTGGGCTC	240
	TACATGCAGA	ACTGGTTCGA	GACGTCGGGC	TCAGGGCCTG	TAGAGGGTAA	GGCCGAACCT	300
	TGTTACGAGC	AAGATTGGAA	GGATATTGAG	AAAGTGGGCG	CGTACCTTAA	TATTCCTGTC	360
	GAGAGAGTCA	ATTTTCGAACG	GGACTACTGG	CTGGATGTTT	TCGAGCCTAT	GTTACAACGG	420
10	TATCAACAGG	GTTATACTCC	GAACCCAGAT	ATTGGCTGCA	ACAGGTTTGT	AAAGTTTGGA	480
	GCGTTGCGGG	AGCACCTGGA	CAAGGAGTAT	GGACGCGGCA	ACTACTGGCT	GGTAACAGGC	540
	CACATATGCG	GAATCTATC	CCCCCAGACT	CGCAGAGAGA	CCCACCTGCT	GCGGAGCCAT	600
	TATGCGCCAA	AGGACCAAAG	TTACTACTTA	TCCCAAGTCC	GGCGGGAGGC	CCTCGCGGAC	660
	CTCTTTAATG	CCCATGGGAT	TTCTAACAAA	ACCGGAAGTC	CGACAATGGG	CCGCAGAA	

1690UP

	GATCAGAAAC	ATCACCATAT	GGTGTCTGAA	GACCTTACGG	CGACGGTCTGA	TACACGCTAC	60
	CATCTCCAAG	COGATGATGC	CGGCTATTAT	GGACACCGCC	GACGCCGTGA	TTGCCAGGAT	120
20	TCGCAGCTTC	AGCAGCTGGC	TCGAGGTGAA	CGTCGAGAAC	ATCCCCGGCA	GTCCGAGCAC	180
	GAGGTTCAAC	GTGGTTGTGT	TGTAGGACCC	GAATACACAT	GTGTAGTTGC	TGTCCATGCA	240
	CTGTATCTGA	GACGCGCCCT	CCATCTTGCA	CGTGCGTGCG	CTACACGTCT	AGCTCCCGCT	300
	CGCACCTATA	CTTTGTATCT	GTTTCGCCCT	TGCTGCGCGC	TAGCCCCCTC	GCGCTTGCCCT	360
	CTTATCCCTT	CTCGAAGTCG	TCTCCCTTAA	GTTGGATCCC	AGCGACCTCC	TAGTCGAAAA	420
	CTGCTGTCTA	CGTTCGCCAG	GCACTAGTTG	CCTCCCACTG	CAGGTTATCG	ATAAGTCCTA	480
	AAATACCACC	AAGCAGGCGT	TGTACTGCTT	CTATACGCCA	ACCCCTCGCTT	TTCGTTGGGC	540
25	TGACACACTC	AAGTGACTGC	AAGAAGACTA	CCCTACTCAC	AGATACCGTC	GTCCGTTGTA	600
	CGCACGCTAA	AAGACAAGTT	AAATCTACGA	CACATATAGT	GCCTCGCAAG	CTCACCGCAT	660
	CCGGAAGGAA	CAAGCTATTA	GAAACTGAGA	CACCTC			

1691RP

	GATCTTCTTT	GTATTCTCGG	TCTTACCTGC	CCCAGACTCC	CCTGTTACTA	ACACCGACTG	60
	GTCCTGCCTC	TGTGTCAACA	AGTTGCGGTA	TGCCCTGCTCC	GCTACCGCAA	AGATATGCGG	120
	CTCGTTGTCT	TCCTTGGGTG	ACCCATGGTA	CAAGTTCACA	TAGTCCTGCG	TGTACACCTT	180
	GATGTTGCTG	TACGGATTCA	ACGCGACGAG	GAATAGCCCA	GAATAAGTAT	ATATCATATC	240
	GTCCTTGTAT	CGGTTCTCCA	AGTTGTACAA	CACAGACGCC	TCGTTCAAGT	GGGTCAACTC	300
35	GGACATATCG	TCTATCTTGT	CAAAACGTTGA	CGGATTCAAC	GCCGCGGTCT	CCACCTCCAG	360
	CACTTCTCGT	TCCTTGGCCAT	TCACTCTCAC	AAGACAGACC	TTCTCATCCT	TGTTCTGTTT	420
	GTTTTTAATT	GTCTTTGTGG	AAACCAACTG	TCCTTTCACA	AACACCTCCT	CAGCATCTGG	480
	AACCCAAATC	ATTTGACATT	GTTCACTCAT	CGGGACAGAT	GCTCTTGAAC	TTATCTAATA	540
	TGCAATAACC	AAATTCAACT	TTACTTTAAT	CACCTGCCTG	TTACACACGA	AGCAATGTTG	600
	GATCTCATAT	TCACACGACC	TACTTTTTTCG	AAACACTTAT	TTGTTTATGT	CGGGCTCGAG	660
40	CATACACGTC	GGTCACGTGA	CAAGCGCATG	TAC			

1691UP

	GATCATTATG	CAACCGAATC	TGGTATCTCA	GAAGATTACC	GTAGGACTGT	GCCTGTCCGA	60
45	TCGATTACGT	TAGTGGGGTA	GAGAATGAAG	TAAGAAGCAG	CTCTGCGATT	ATTGTCGCTT	120
	TGCGCCTCAT	GTGAGGTAAA	GCCCTATCCC	GCAGGGTGGC	GGCTTTCTGC	AAGAAAACTT	180
	GGGCATCAG	CCCCCGAAAC	GAAATGCGAT	AGTCACCTGT	GCCATGGCGA	CGAGTCATTT	240
	CCCCATTGCT	ACAGAAATGA	ACGGGCAGAA	TCGCGTAATG	GATTTTCTGT	GGCGTTCGTG	300
	CCAAAAGGTG	ATCTCCACCT	GCGTGCTGCC	CTGCGGGCGT	GGTTGAGCAG	AGCACCTGGA	360
	AAAAGAACAG	CACAGAAGGC	CAATGCAGTT	GGCCAATTGA	GGCAATAGCC	GAGCAGGAAC	420
50	AGTCGAAAGT	GGGTGTTCTG	GCGCTGTTGG	ATCTGAAAAA	TGCAGGAAGT	TACAAAAAAC	480
	AGTGGGGCAA	TACATAGAAA	CCGGCGACCC	GGCGATCGGC	TAATCATCTG	CCATGGAGAC	540
	GCGGGTCCGG	CGCTCGAACC	AGCGGTGCGA	ACCTTGAGGG	CATGGTGATA	CGGGCCCGTC	600
	GGCGGGGCAC	TCAAACAGGC	ACGTGTTAAT	CCTGACAAAA	CGCAGCGGGG	TAATTCCTTT	660
	CCGCAAGCCG	GACGGGTATA	TGAATCGTAC	GATACCAGTT	GTGCA		

1692RP

	GATCTAAAATA	TATATAATTT	AATTTATAAA	GATTAATATA	AACTTTTTTA	TTATAATATT	60
5	TAAGTATTAA	ATTATTTAAA	CTATTATTAT	CATTATTTAA	TAAATTAATT	ATTTGATTAT	120
	TAATACTTAT	TATATAATTA	TTATATAATT	TACTTAATTC	ATCATTATTA	ATATTTATAT	180
	AATTATAAAA	ATAATATTTA	ATATGAATAC	TATTTAGTCT	ATGTTCAAAT	TTTAAATTAG	240
	TTATTAAAAAT	ATTATTAGAT	ATTATTATTT	TCTTTAATAA	ATTATTAAAT	AGATTATCAA	300
	TAATTAATAT	ATTATTTATT	AATTGTTTTAT	TAAAATAATA	TATTTTATTA	TTATAAAGAT	360
	TTAATTTTATT	TAAATATTGT	AAATTATTAT	TTTTATTATA	ATATCTATTT	TTATAAATAT	420
	TATGTTGATT	TATATTATTT	AATCTTTTTA	TAAGAATTAT	TATTAAAAAT	AATTTTAACT	480
10	TTAATTTCTT	ATTATTAATT	TTTATATTAT	TTAATAAATT	ATATTCATTT	TATTTATTTA	540
	TTTATTTAAT	TAAATTAATT	ATTTAATTAA	TATTTTATCA	TTATTTAATT	AATTAATAAA	600
	ATATTATAAA	GAATGTAGTT	AAAAATACTT	ATAAAA			

1692UP

15	GATCTTGATA	CTAGAGCTTA	TTTTACTTCA	GCTACTATAA	TTATTCTTAT	TCCTACTAGT	60
	ATTAAAGTAT	TTAGTTGATT	ACTAACTATT	TATGGTGGTT	CATTAAGATT	ACTAACACCA	120
	ATATTATATC	TATTATCATT	TTTATTTTTA	TTTACTGTAG	GTGGTTTAAC	TGGTGTAGTA	180
	TTAGCTAATC	TATCATTAGA	TGTAGCATT	CATGATACTT	ATTATGTAGT	ACTACATTTT	240
	CATTATGTAT	TAAGTTTAGG	TGCTGTATTC	TCTATGTTTG	CTGGTTATTA	TTATTGAAGT	300
20	CCTCTTGTTT	TAGGTTTAAA	TTATAATGAA	AAATTATCAC	AAATTCAATT	CTGATTAATT	360
	TTCTTAGGTC	TTAATATTAT	TTTCTTCCCT	ATGCATTTCT	TAGGTATTAA	TGGTATACCA	420
	AGAAGAATTC	CTGATTATCC	TGATCTATTC	CTAGGTTGAA	ATTTAGTATC	TTCAATTTGGT	480
	TCTATAATAA	CTATTATATC	ATTAATGTTA	TTCTTTTATA	TTATTTATGA	TCAATTAATA	540
	AATGGTTTAA	CTAATAAAGT	TAATAATAAA	TCTATTAATT	ATATAAAACT	ACCTGATTTT	600
	ATTGAATCAA	ATAATATTTT	CTTAATGAAT	ACTACTAAAT	CATCATCTAT	TGAGTTTATA	660
25	TTAAATTCAC	CACCTCTTAT	TCATTCATTT	AATACTCCTC	TAATTCATTC	TTAAAAATAT	

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1694RP

	GATCCGTTCC	TTGAGAAGCA	CCTAAAGCCT	GAACCTCCTGG	CAGAAGCGAT	CAAGGGAACC	60
	TCTTGGGAGG	GTAAAGTTAG	TATTAACCTG	GTAGACGGAT	TCGACCACTC	GTATTACTTC	120
5	GTCAGCACGT	TCGTGCCGGA	ACACGCAAAAG	TACCATGCGAG	AAAAGTTGGG	TCTAGTTTGA	180
	GATTTGACGT	TGCGCCTGTT	AATTGGTATA	TACTTACATA	TTTAGTCATA	TGACGGCTTC	240
	AAGTACTCTG	ATTCTGCATT	ATAAGTGCGAG	CCGAATGCCA	GCCTCCGGCA	GTAAATGGCAA	300
	CGCAAACTGA	ATTTGCCGGT	AGTTCAACCT	TGGCCGGTTG	CAGCACGCGT	ATGCTCCGAG	360
	CAGACTCAAA	CGTCGCTATT	TGGCGGGTAT	CTACAGCCTC	GTCGGGATCT	CCCTGCCCAA	420
	GACAGCCACA	GATATCACTC	TCCAGCCCCC	AGGAGTAGAG	TTACCTTTTG	TCCGTTAGAG	480
10	CTAGGTTGTG	GTAGTCTCCC	GCAGATACAG	CAATAAACTT	CTGGCCTTGT	TCCAAATTCA	540
	TCTTCATGAA	TGAGTCTCG	ACGATATCAC	CATTATTAC	CTTCAGGGTG	TATGTGCTAT	600
	TCTCGGTACA	TAAAACCACT	GTCATGCAAG	ATGCCTCAAT	CTTCGTAAAC	CGTCCATCAA	660
	ATGGCAAAAT	CAA					

1694UP

	GATCAGCCCC	CGACCGAAGA	ACACTCGCTT	CCCTCTGGCG	AGCGCCGAAA	TTCTTGGACC	60
	GAGTATCAAC	AAATCCAGTT	AGATAACGAT	CACATGATTG	CAACACTGCG	GGAATTCATT	120
	AGTTACCAGA	CTGTTTCCCA	ACTCCAGAG	CCCCAAAATA	TCATCGATTTC	GCGTAGGTGT	180
20	GCGAACTTCC	TGCAAAATCT	CTTCACCTAAG	CTCGGTGCTA	ACCATTTGTGG	GCTTATACCT	240
	GTCAGTACAG	GCAGCAACCC	GGTGGTTCTC	GCGCAGTTCA	AGGGCAATGC	AGCCGCGCCC	300
	AAACGCATAC	TATGGTATGG	CCACTACGAT	GTGATATCCG	CGGACCACCC	GTCCGAGTGG	360
	GACAACGACC	CCTTCACGCT	CACTTGCGAA	AATGGGTATC	TTAAGGGAAG	AGGCGTGTCT	420
	GATAACAAAG	GCCCCGTGCT	TGCCGCCATC	TTCAGTGTAG	CCGAGCTTTT	CCAGAAAGGA	480
	TACCTGAACA	ACGACATCAT	CTTTCTAGTC	GAGGGCGAGG	AAGAAAATGG	CTCTCGCGGC	540
25	TTCAGGGAAA	TTTTGCTTGC	CTCCGAAGGG	CTTCTCAATC	AGCGGTGGGA	CTGGATCCTG	600
	TTACGCAATT	CCTACTGGCT	GGATCAGAAG	GTGCCCTGCC	TCAACTATGG	CCTCCGAGGC	660
	GTCATAAACG	CCGAAA					

1695RP

	GATCTGCCCC	CAAAAGATTT	CGGTGCCGGC	TACCCCAAAA	GATTTTCGGT	GCCGGCTACC	60
	CCATCACGAG	ATGGCACTGG	CTCATTTGGCG	AGCTCCTGGG	CATTTGCCTA	TGACAGAGGA	120
	ATGAGTCAGC	TTTACTCCGC	CACACCATAC	TCCCGGGCCT	TCAACAAGCT	TCTGTTTGCC	180
	ATCGGCATCG	TGGCCAGTTC	TTACACTGCG	GCCCCACCTG	CATCGGCCGT	CATCGCAGCC	240
	GTTTTGTAC	AGTTCTCCCT	CCGCAGGTAT	CGTCTCCGCA	CCGGTAACGG	ACGCGACTAC	300
35	GCAGCGGCTG	CCGCACTCAC	GTGCGGGCGG	GTCTTCTCTC	CCACCGTGAT	AGTCACTTTT	360
	CAGTAGTGTG	TGCTGCCTTG	AATTGGCAGG	GCAATCGTTC	AAGCTGCTCT	GGCGCGGACG	420
	ACGACCCCAT	CTCCGCAACG	GCGTTGGCGG	AGAAAAGGTG	TTTCGGACCA	GACATCGGCC	480
	ATCTGCCGCA	GTCAGCAGCT	GCCTTGGTAC	GGAGCTACCT	GTCTATATTA	TCCCCCTAAT	540
	AAACATTGGA	TATGCCTGTT	ATTGTATGCC	AACGGTTCTC	CGGGTACAAC	GGGGTAGTCC	600
	CGCCCCCTCC	TGAGCTATCC	TGGCCGATGT	GAAGTGCCCT	TGGTTAAGTG	GTCTGCTTTT	660
40	CCGGGCCACT	TGTAACACT	ATGGCGGATC	ATACAGCCAG	GACTCAAATA	C	

1695UP

	GATCTGAAAA	GCAGGAAGTC	GCAGTGGGAG	GCGCCTGCGG	GCACGTCTGT	GCCAGCGAAG	60
	GGTGCGCCCG	ACGCGCCACC	GGCGTACGAC	ACGGCCGTCG	CACGCGCCGC	CGCGCACGGC	120
	GCGCAGGCCG	TTGCGCCCCA	GCCCGACTAC	GGCACACAGG	CCGGATACGC	GCCCCAGGGG	180
	TACGGCGCGC	GGGCGGGGTA	CACGCCCTAG	CCCGGCTACG	GCGCACAGCC	CGGCTACGGC	240
	ACACAGCCCG	GCTACGGTGC	ACAGCCCGGC	TACGGCGCAC	AGCCCGGCTA	CGGCGCACAG	300
	CCCGGCTATG	CGCCGCAACC	CGGTTACGGA	TACGCGCCGC	AGCCGGGCTA	TGGTGCCGCG	360
	CCCGGGCCGT	ACGCGCAGCA	GCCCGCGCAC	GGTTACCCGG	CCGGCGCAGC	CGCCGCGCCG	420
50	CAGAACGGCG	GCCGCAACAA	CATGATGATG	GGCGGCCCTGA	TGGGTGCCGG	CGTGGGGTTG	480
	ATGGCCGGGT	CACCAATGAC	CACAGCCATG	TATAACCACG	ACAAGGACGT	GGCCGATGCT	540
	GCCTACGACC	GCGGCTATGA	AGACGCTTCA	TCGACGGCGA	CTTCTAGGCC	GCACCCCGTC	600
	ACGTGCCAGA	CCCGTAGAGA	GCTAGGACAA	CTTACGTAAC	GCGTCGACGT	ACGC	

1696RP

	GATCTTGTTT	TCCATTGACA	TCGAGGCGTT	TGAGAGCAAC	ACATCTGTCT	TCACAGAGGT	60
	GGGAATCTCG	GTCTACGATC	CCCCGCGAGAA	CGAGGACACG	CTCGTGCCCC	ACTTCCGCAC	120
5	GTACCACTCT	TGTCTCGAGG	AGTCTCTCGG	GTTGATAAAC	AAGCGGTTTG	TTCCGAATCA	180
	CAAAATGCGAG	TTTCTCCATG	GTGAAACCAT	GGTAATGCCG	CTCTCCGAGT	GCGTTGAGTT	240
	CATTAACGGG	CTTATCGAGT	ACTACCTGTA	CCCACCCACG	GGCGTGGACG	ACAAGTACTC	300
	GCGGGCAATT	GTGGGTCAAT	GTGTCTCTGG	TGATCTGCAA	TGGCTTAGGA	GTCTGCTCAT	360
	CGAAGTGCCC	ACGATCGCTG	GCCCAGGCAA	CTCCCATCCG	CGCGACCATG	TTTCTGTCTT	420
	AGATACCGCG	CATTTATACC	AGTACTTCTA	TGGTCAGAAG	GGTTCATCCC	TAGGTAAGAG	480
10	CTTAAGATTG	CACGGTGTCC	CACATAGCTA	TCTGCACAAT	GCAGGCAACG	ATGCATATTA	540
	CACATTACAA	CTGCTCATGA	AGATGGGCGA	TGTGCAGCAA	CGCATCCGGC	ACCAATGGGA	600
	CGATCTATAT	GCTGTCTTCC	ACACGTTGAA	GCAATGGGAA	GAGTATGAGA	ACTCCACGCC	660
	CTCCACTCAG	CACGCAGAAT	CCGTCCATAA	CAGCAACCCG	GCTACCGGGA	A	

1696UP

	GATCCGTCAG	AAACCCATCG	CCTCGCTCGC	TCGTCTGCTA	ACGCCAGAA	CGCCACCTGT	60
	GGTCTTTTCA	CTGCCGCTGG	TTCTTTATTC	CGCCAGGGGG	CCTCGTGGGC	CCGCCAGCGC	120
	TCGCCAGCGC	GGTTGTCTGC	ACCCGCGAGCA	ACAGGACGAG	AACTCTCCGC	TTTCGGCCTC	180
20	GTGAGATTTT	GGATTTCAGT	ACGTGATTCA	CGTAGAGGTT	ACCCGGAAG	AGCGGCTTGG	240
	ATGCCAGTAA	TCACCGCCGT	TATCCCCCGC	CTTCTTAAGC	ATTTCAGTCT	AGCCGCTTCT	300
	CCCCGCTTCC	TTGTTCTCCT	GGAATTTCAA	AGGGCGGGCG	GTATATAGGC	GGCGAGAAAA	360
	ACACGGTGCC	GAACGTTGTT	GCCGCCAAGC	GTTATCGTGA	AGAACAAGCA	TAAATGGTTT	420
	CCCTTCGGTT	ATTAAACAGG	TGCAGGCGCT	AAATCCAGCAG	AACCGCGTGT	TCATTGCATC	480
	CAAGACGTAC	TGTCCGTATT	GCCAGGCGGC	AAAGCGTACG	TTGCTGGAGG	AGAAGCGCGT	540
	CCCGCAAGC	GCAGTAAAC	TGTTGGAGCT	TGACACCATG	GGCGAGGAGG	GCGCGGTGAT	600
25	CCAAGCGGCG	TTGCAGGAGC	TGAGCGGGCA	GCGCACCGTG	CCCAACATCT	ACATCAACGG	660
	GCGCCATGTG	GGTGGCAACA	A				

1698RP

	GATCTGGTGC	TTTTCAACGC	CCCGCCCCAG	ACAAATTTCCG	GAAGCATACA	TATCGCCATT	60
	ACATAAACAG	ATTTTATGAC	TAGTACAGTT	AGGTATGTGG	GAGATCACCG	GAATAACTCC	120
5	TATATCTTAT	TTCTGTATTC	TCAGGTAAGT	ATCGCTGTTG	ATGAACGGGC	AACCTGTGA	180
	CTTGGGGATT	AACACTGTAT	GAAGCCGGAC	GGGGGGGTAG	CACATTGGTA	CTAGGCTGGC	240
	TGAATTCATA	ATTGGAATAA	GGTGCTGCTT	GCCCCGATGG	CTGGTATGTC	CGGTGCTGGG	300
	TTGAAGGCAT	AAAATTGCTC	GAGCTGTAGC	ATGTTGCCCT	CTCTAGCATC	ATGTTGTATG	360
	TAACCTCCGC	ATTGGCCAGA	ACCTCGCGCA	ATGATGCAAG	ATCTTCCTTC	TTCTGCGCAT	420
	ATTTACCGAT	GAGTTTCGTG	ACATGTGGTC	TAAGCGGTGT	GACGGTAGAG	TAAAGTTCTG	480
10	ATATCTCGTC	TTCTGTGTGC	ACATCCACAT	TCTGGGAGAC	CCTTAGTTTC	TGGAGCAAGT	540
	TCTCGACATT	GCCGGCTTGC	GCAAAGACAG	CATGCTCCTG	AGCAGCCTCC	TTAGCTACCT	600
	CCTCTGCAGT	TGGCTCAGGG	CATACGCCGA	CATAATTAC	TGGGAAAAAT	ACCAACCTTG	660
	CCGCGCA						

1698UP

	GATCAGCAAG	CTGGCCGCCG	CAGGTGTGCA	TCTGGGGCAG	TCTACGTGCT	TGTGGCGCTC	60
	CTCCACTCAA	CCATACATCT	ACGGCTCTTA	CAAGGGCATC	CACATCATTTG	ATCTAAACCA	120
	GACGCTGTTT	CACCTGAAGA	GAGCTGCGAA	GGTCGTTGAG	GGTGTGCGCG	AGAATGGTGG	180
20	CCTGATCTTG	TTTTTGGGTA	CCAGAGAAGG	GCAGAAACCA	CCTTTACGGC	GGGCTGCAGA	240
	GAGGGTGCCT	GGCTGTTATG	TCGCCCTCGAA	ATGGATACCG	GGGACCTTGA	CAAACCCAAT	300
	TGAAATATCC	ACTGTCTGGG	GCAGGCATGA	AGTTGACTTC	GAGGGCAATC	CAACTGGCAG	360
	GGAATTGACA	GAAGAAGAGA	ACATCCGCAT	CATAAAGCCG	GACTTAATTA	TTGTTTTGAA	420
	CCCAACAGAA	AACATGAACG	CGTTGAGAGA	GGCTATGCAG	GCTAGAGTGC	CACCTATTGG	480
	GATCATTGAC	ACCGACTCAG	AGCCTTCAAT	GGTCACATAC	CCGGTCCCTG	GTAACSAACG	540
25	ATTGCTACG	TTCTGTAAGT	TTACTTGTAA	AC			

1699RP

	GATCTGCGTG	TATATTTGGA	TGTATATGGA	CTTCACACTT	TCGGAAGCAA	TGGAACTCGA	60
30	AAGCTGGTTG	ACCACCTCTG	TGTATTCTCG	TAGTCTTTCT	GAAACGACGG	TAAGAAAATT	120
	AACCTTGAGC	GGCGATAGGG	AAGATGCAAC	TTTAAATTTT	TCTACTTGGT	TACTCAAATA	180
	CTGATATAAT	AATGCAGCCT	CAAATATGCT	GTGGAAAACA	CCACTTTTCG	CGTTCCGGAAC	240
	ATTGGGTGGG	ATTTTCGATA	CCTGATTGGA	GATCGGGAAC	AAACTCGACG	TAGTAGCCAG	300
	TAACGTGTAG	GAAATGACT	TTAAAAACGTC	GGCCTCGGGC	ACCATGTTGC	TGTAGTATGG	360
	GTTAGACAGA	TATGCCAATG	GAGTATCGTG	CTGCTGCGGC	CGCTTGGGGA	CCGGGCCGCC	420
35	GTAGGCAGAG	GTTACCGCCG	ACCGGCGCTC	TGAAAGCCGC	TCCACATTCT	CGAACGACTC	480
	TGCATAGACA	CTAACCGCCC	TCGACGGCGT	CATCAGCGAG	TTGTGCCGTT	GCAGCGTGGC	540
	GTTGTAAGA	TATCCAGACG	CGGTGCGCCT	GTGTCGGAAG	GGCGTGCTCT	CCTGCGGCAC	600
	GCTGTTACAG	ACCGTCAGGT	ACTTCAGCAC	CTGCTCCTTG	CTACCGAAAC	TCTCCAGCAC	660
	TTTT						

1699UP

	GATCTCCACC	GCGTCCAGCA	CCACGATCCG	GTCACCGTCC	CACCGCGTCA	TCGCCACTGT	60
	CCGCGCGACG	CTTTCGAAAA	CCGCCCGTCC	CTCCGCCGTC	GCAGCCCTTC	CCCCGCTGTC	120
	GTGCGTCCGG	TGCTCGGCCT	CCCGCGACCG	CAGCGTCGCC	ACCACCCGCT	CTATATTCAC	180
45	GCCCGCGGGC	TTGAGCGTGT	CGCGCTTGAT	GCCAGGGCTG	GTGGGTTTCT	CTCCACCAC	240
	CTCCAGGCTC	TTGATAAACG	TCGTCTTAAT	CACCTTAAAG	CTCGCAGTAT	GGCCCTTGCG	300
	CCCACATAGT	AGCGTCAGCG	TATGGTTTTC	CGAATCGTAC	GCGTATATCT	TGCCCTGTGT	360
	TACACCGTCG	AGGACGTGG	TCACCCGCAC	CTTGAATCCA	AGGATATGTT	CCAAGTTGAT	420
	GCTCATTCCTG	CTCACTTCCA	AGCCACACA	GCTATCCTGG	CCACCTTAGA	ATGCCACGCC	480
	TGCTCCCCGT	CCACTGGCTG	ACTCCCAATC	GTTCACTTTG	CGGTGTGGGT	ATTTTTTTGA	540
50	AGTGGCGCTC	TAACGATGAA	GTAGGATTTT	CTATGTATTA	CTATGTGCA	CAAAGGTTAG	600
	TTCCAATAGT	GCTTGCAACT	ATCAGGTGCT	GTGGAATTC	AA		

1700RP

	3ATCAGCAAC	CGCAGCGGAT	GAGGGAGTCC	GCTCACGCAC	GGTCTTGTTT	TCAGCGCTTG	60
	GCCTGCTTTT	CTCCTTTATG	CGTTGTACTA	CTTCGTGTAT	GTGCTCGGCA	TCCAGGCCCC	120
5	TTTTCCCTTAG	CCTGCTTCGT	AACCTGCGCA	GGCGGCGGTT	GCTACGAACA	CGCAACTTGG	180
	TTTCTGGATC	AGCAAGCTGC	GCTCGGTGTT	TGCGCAGCCG	TTGGCATGCT	CGCGGATCCT	240
	CGCGTTCAAT	ATACCAGAAAT	GCATCATGCT	TCGCTGGCTC	TATATTGACC	TGGTGGCCAT	300
	ATATGAAAAG	GCGGTCCTTG	AAGTTTTGTA	AAAACTCGTC	TGCCTGAGAT	GGCGTAGCGA	360
	ACCCAAGGAA	GCATTTATTG	CGGCATTTAC	GAGGCCCTGA	AACACTAACT	ACCCCGTACT	420
	ICTCATCTAC	CAGTGGAAAG	GGCACGTCTG	CGGAAGGAAG	CGGCTCTGGC	AACGTTTTCT	480
10	CCGCCGATAG	AGCATATGGG	TTATCCTTGT	TGATGGACTT	CAACAGTTGT	CGAGCATATT	540
	TTATCCTGGA	GGCATTTGAC	GCTGGCAAAT	TTGACAGGTA	GACACTGGAT	GGCGGGGTTA	600
	3TATCGAATC	GACAGCAGTA	TAGC				

1700UP

15	GATCACTGGG	CCTGGAGGGG	CGCGCCTTTT	TGCGGCTGTT	GTAGAACAGC	ATGCCCGCGC	60
	GGACCTTGTC	ATAGAAGTGT	TTAGACTGTA	GGGTTCCTAT	CGAATGGGAG	CGGCGGTAGC	120
	TGTGACTTTT	CATGATAATG	GGGGTGCANA	GCTTGAGGTG	GTCGTCTGAC	GGGGAGGAAA	180
	TGAGGTTGCG	GCCGAGACGG	AGGTCGTCCG	CGCGCGCGAG	CGACGAGCCG	CCGGATGGCC	240
	ACTTCCAGGA	CTTGC CGGAC	GACGGCGCGT	GGCGCGAGGA	GTAGGAGCGG	ATGGGGAAGT	300
20	CGCCGCCAAG	CTGCGAGCCG	CGGAGCCACG	ACGTGAGCCG	CTTCAANAAA	CGGCGACGGC	360
	GGTTGGCGGG	CTGGAGCTGG	CCGGCGACAA	ACGCAGAGCC	GCTGTCTGGC	AGACCGGTGG	420
	GCGCGCCTGC	GCTGCTGGTA	AGCCCACTGG	CGGACTCAGG	CAAGCCGGAC	ATGCCCCGGA	480
	AGTAGCGCGC	GCTGTTGGCG	CTGAGCTTCG	GAAACATCTT	GGAGAAGAAG	CCCGGCTCCG	540
	TGGAGCGCAA	CACGCGGTCC	GCCTTGAGGA	TGTGCTCCTG	CGTGGAGTGC	GCCAACTGCT	600
25	CCA						

Annex to the description

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- (A) NAME: Novartis AG
- (B) STREET: Schwarzwaldallee 215
- (C) CITY: Basel
- (E) COUNTRY: Switzerland
- (F) ZIP: 4058
- (G) TELEPHONE: +41 61 324 11 11
- (H) TELEFAX: +41 61 322 75 32

(ii) TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPII
AND USES THEREOF

(iii) NUMBER OF SEQUENCES: 1152

(iv) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(v) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: EP 978 110 20.3
- (B) FILING DATE: 24-DEC-1997

(vi) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: CH 0016/97
- (B) FILING DATE: 31-DEC-1996

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TTTACTAGA TATTTTATAT CCAAGAAGCA ATAGATCAAA ATGGCTGCGG TAAAGAGAAT 60

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CTGGAGCTCC ACCGCGGTGG CGGCGCTCT AGAAGTAGTG CGCCAACGTT GCGAGATATA 60

5

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1281 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

10

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: AgLEU2

15

(ix) FEATURE:

- (A) NAME/KEY: CDS
 (B) LOCATION: 1..1116

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

ATG GCT GCG GTA AAG AGA ATT GTG GTG CTT CCG GGC GAC CAC ATC GGC 48
 Met Ala Ala Val Lys Arg Ile Val Val Leu Pro Gly Asp His Ile Gly
 1 5 10 15

25

CGC GAG GTC GTG GAG GAG GCG GTG AAG GTG CTT GGC GCC GTG GAG CAG 96
 Arg Glu Val Val Glu Glu Ala Val Lys Val Leu Gly Ala Val Glu Gln
 20 25 30

30

AGC CTG TCG GAC GTG CAC TTT GAC TTC CAG TAC CAC CTG GTC GGC GGC 144
 Ser Leu Ser Asp Val His Phe Asp Phe Gln Tyr His Leu Val Gly Gly
 35 40 45

35

GCG GCC ATC GAC GCC ACG GGG TCG GCG CTG CCG GAC GAG GCG CTG GGC 192
 Ala Ala Ile Asp Ala Thr Gly Ser Ala Leu Pro Asp Glu Ala Leu Gly
 50 55 60

40

GCG GCG AAG GAG GCG GAC GCG GTA CTG CTG GCG GCA GTT GGC GGA CCG 240
 Ala Ala Lys Glu Ala Asp Ala Val Leu Leu Gly Ala Val Gly Gly Pro
 65 70 75 80

AAG TGG CAG GCG GCG GCG GTC AGG CCG GAG CAG GCG CTG CTG AAA CTG 288
 Lys Trp Gln Gly Gly Ala Val Arg Pro Glu Gln Gly Leu Leu Lys Leu
 85 90 95

45

AGA CAG GAG TTG GCG GTG TAC GCG AAC CTG CGT CCC TGC AAC TTT GCG 336
 Arg Gln Glu Leu Gly Val Tyr Ala Asn Leu Arg Pro Cys Asn Phe Ala
 100 105 110

50

GCG GAC TCG CTG CTC GAG CTG TCG CCG CTG CCG CCC GAG ATT GCC CCG 384
 Ala Asp Ser Leu Leu Glu Leu Ser Pro Leu Arg Pro Glu Ile Ala Arg
 115 120 125

GAT ACC GAT ATT ATG GTG GTG CCG GAG CTG CTG GCG GCG AGC TAC TTC 432
 Asp Thr Asp Ile Met Val Val Arg Glu Leu Leu Gly Gly Ser Tyr Phe
 130 135 140

55

GCG GAG CCG CAC GAG GAC GAG GCG GAC GGA GTC GCG TGG GAC ACC GAC 480
 Gly Glu Arg His Glu Asp Glu Gly Asp Gly Val Ala Trp Asp Thr Asp

EP 0 866 129 A2

	145	150	155	160	
5	AAG TAC ACC GTG AAG GAG GTG CAG CGC ATC GCG CGC ATG GCG GGG TTC Lys Tyr Thr Val Lys Glu Val Gln Arg Ile Ala Arg Met Ala Gly Phe 165 170 175	528			
	CTG GCT CTG CAG CAC GAC CCG CCG CTA CCT GTG TGG TCG CTG GAC AAG Leu Ala Leu Gln His Asp Pro Pro Leu Pro Val Trp Ser Leu Asp Lys 180 185 190	576			
10	GCG AAC GTC CTG GGC AGC TCC CCG CTG TGG CCG AAG ACC GTG GAG GAA Ala Asn Val Leu Ala Ser Ser Arg Leu Trp Arg Lys Thr Val Glu Glu 195 200 205	624			
15	ACC TTC CAG AGT GAG TTC CCA AAC GTG CAA TTG CAA CAC CAG TTG ATA Thr Phe Gln Ser Glu Phe Pro Asn Val Gln Leu Gln His Gln Leu Ile 210 215 220	672			
	GAT TCA GCT GCA ATG ATT TTG GTC AAG AAC CCG CCG GCG TTC AAC GCG Asp Ser Ala Ala Met Ile Leu Val Lys Asn Pro Arg Ala Phe Asn Gly 225 230 235 240	720			
20	GTC GTG GTG ACG AGC AAC ATG TTC GCG GAC ATT ATC TCT GAC GAA GCG Val Val Val Thr Ser Asn Met Phe Gly Asp Ile Ile Ser Asp Glu Ala 245 250 255	768			
25	TCG GTG ATC CCA GCG TCC CTA GCG TTG CTG CCA TCG GGC TCG CTC GCG Ser Val Ile Pro Gly Ser Leu Gly Leu Leu Pro Ser Ala Ser Leu Ala 260 265 270	816			
	TCT TTG CCG GAT AGC AAG AGC GCC TTT GGC CTC TAC GAG CCC TGC CAC Ser Leu Pro Asp Ser Lys Ser Ala Phe Gly Leu Tyr Glu Pro Cys His 275 280 285	864			
30	GGC TCT GCG CCC GAT CTG CCC GCC GCG AAG GCG AAC CCG ATC GGA TGC Gly Ser Ala Pro Asp Leu Pro Ala Gly Lys Ala Asn Pro Ile Gly Cys 290 295 300	912			
35	ATC CTC TCT GCT GCC ATG ATG CTG AAG TTG TCG TTG AAC ATG GTT GCT Ile Leu Ser Ala Ala Met Met Leu Lys Leu Ser Leu Asn Met Val Ala 305 310 315 320	960			
	GCC GCG GAG GCG GTC GAG CAG GCA GTG CAG GAG GTG TTG GAC TCG GGA Ala Gly Glu Ala Val Glu Gln Ala Val Gln Glu Val Leu Asp Ser Gly 325 330 335	1008			
40	GTC AGA ACG GGC GAC CTG CTC GCC TCG AGC TCC ACT TCG GAG GTT GGC Val Arg Thr Gly Asp Leu Leu Gly Ser Ser Ser Thr Ser Glu Val Gly 340 345 350	1056			
45	GAC GCC ATT GCG CTT GCA GTT AAG GAA GCC TTG CCG AGG CAA TCC GCA Asp Ala Ile Ala Leu Ala Val Lys Glu Ala Leu Arg Arg Gln Ser Ala 355 360 365	1104			
	GCT GGT CTG AGC TAGCCTCGAG GACCCCTCTC TTTAGACTAT TCTACTCTTA Ala Gly Leu Ser 370	1156			
50	TGCACGTAAA AAATCTTAGG AAATATGTAT TAACTAGGAG TAAAATAACC GGCTAGTGGC	1216			
	ATTTCATATAG CCGTCTGTTT ACATCTACAT CACACATTTT GAGTGTATAT CTCGCAACGT	1276			
55	TGGCG	1281			

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Ala Ala Val Lys Arg Ile Val Val Leu Pro Gly Asp His Ile Gly
 1 5 10 15
 Arg Glu Val Val Glu Glu Ala Val Lys Val Leu Gly Ala Val Glu Gln
 20 25 30
 Ser Leu Ser Asp Val His Phe Asp Phe Gln Tyr His Leu Val Gly Gly
 35 40 45
 Ala Ala Ile Asp Ala Thr Gly Ser Ala Leu Pro Asp Glu Ala Leu Gly
 50 55 60
 Ala Ala Lys Glu Ala Asp Ala Val Leu Leu Gly Ala Val Gly Gly Pro
 65 70 75 80
 Lys Trp Gln Gly Gly Ala Val Arg Pro Glu Gln Gly Leu Leu Lys Leu
 85 90 95
 Arg Gln Glu Leu Gly Val Tyr Ala Asn Leu Arg Pro Cys Asn Phe Ala
 100 105 110
 Ala Asp Ser Leu Leu Glu Leu Ser Pro Leu Arg Pro Glu Ile Ala Arg
 115 120 125
 Asp Thr Asp Ile Met Val Val Arg Glu Leu Leu Gly Gly Ser Tyr Phe
 130 135 140
 Gly Glu Arg His Glu Asp Glu Gly Asp Gly Val Ala Trp Asp Thr Asp
 145 150 155 160
 Lys Tyr Thr Val Lys Glu Val Gln Arg Ile Ala Arg Met Ala Gly Phe
 165 170 175
 Leu Ala Leu Gln His Asp Pro Pro Leu Pro Val Trp Ser Leu Asp Lys
 180 185 190
 Ala Asn Val Leu Ala Ser Ser Arg Leu Trp Arg Lys Thr Val Glu Glu
 195 200 205
 Thr Phe Gln Ser Glu Phe Pro Asn Val Gln Leu Gln His Gln Leu Ile
 210 215 220
 Asp Ser Ala Ala Met Ile Leu Val Lys Asn Pro Arg Ala Phe Asn Gly
 225 230 235 240
 Val Val Val Thr Ser Asn Met Phe Gly Asp Ile Ile Ser Asp Glu Ala
 245 250 255
 Ser Val Ile Pro Gly Ser Leu Gly Leu Leu Pro Ser Ala Ser Leu Ala
 260 265 270
 Ser Leu Pro Asp Ser Lys Ser Ala Phe Gly Leu Tyr Glu Pro Cys His
 275 280 285

Gly Ser Ala Pro Asp Leu Pro Ala Gly Lys Ala Asn Pro Ile Gly Cys
 290 295 300

5 Ile Leu Ser Ala Ala Met Met Leu Lys Leu Ser Leu Asn Met Val Ala
 305 310 315 320

Ala Gly Glu Ala Val Glu Gln Ala Val Gln Glu Val Leu Asp Ser Gly
 325 330 335

10 Val Arg Thr Gly Asp Leu Leu Gly Ser Ser Ser Thr Ser Glu Val Gly
 340 345 350

Asp Ala Ile Ala Leu Ala Val Lys Glu Ala Leu Arg Arg Gln Ser Ala
 355 360 365

15 Ala Gly Leu Ser
 370

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- 20 (A) LENGTH: 20 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- 25 (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

30 CATGATTACG CCAAGCGGGC 20

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- 35 (A) LENGTH: 20 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- 40 (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

45 CCAAGCACAT TTCACCTGCG 20

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- 50 (A) LENGTH: 4985 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

- 55 (vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1489

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

	GATCGTAACA TTGCCCCAATA GCTTGTTTTAG CTCGTCATCG TTTCTGATGG CTAGCTGTAG	60
	ATGCTTTGGG ATGATTCTGG TCTTCTTGTG GTCTCTGGCG GCGTTACCGG CCAACTCTAG	120
10	GATTTGGGCG GCCAAGTATT CTAGCACAGC GGTTAGGTAC ACAGGCGCGC CCGACCCGAT	180
	TCTCTGTGCG TAGTTGCCCT TTCTGAGCAA TCTGTGGACT CTACCGACAG GGAAAGTCAA	240
	ACCGGCGCTTA GCGATCTCG ACTGCGAAGC CTTGCGCGCA GAACGAGCTT TACCTCCTTT	300
15	ACCAGACATT ATTTGTGTGTG TGTGTGTGTG TGTGTGTTTA GTGTGAAGTG CGTGTGCTAT	360
	GAGAAAACAC TACGCTGAAA CTGCTAAATA ATCCAGACAG GTCCCCCAC CGCAAAGGAT	420
	CCACGCTATA CTCTCTCTTA CATATTTATA CTGTCTCTTT TGCTTCTTAA TCCTCGATCG	480
20	TACCGCTCTG ACGCTTCAAC AGACGCTTCA CCTAGACGCT CGAAGCTGTC GGCCTGGTTT	540
	TTTCGCATGA CATGTCCGTG CTGGTTTTTT CGCGCTGAAA AGGAAAGCGC GTGGCTOCCA	600
	GCACGAGAGC CGTACTAGCT CTTTCGCGTG CTGTCTATG TGCAAGCGAA ATTTTCATAC	660
25	TGTAGAGTGT GCCATCAGCT TCACAGAGTA CAAACGGTAG GCGAGTGGAT ACGCGTCTTG	720
	TAGCCGGACG TGAATGGCAG AACTTTTTTG CAGTCGGTGA ATCTTAGATT GAAAGTATTT	780
	AAGTGAACG TATAAAACAA AAGTTGGGCG TGAAGAGGAC CTCTTTTGGC GTCTGCTACT	840
30	TCCCAGTTAT CTGTGGATA CTAAGCATAT CGAACTCTAA TTGCAATTCT AAAGATGGCA	900
	CCAAAGGCTG AGAAGAAACC TGCTTCCAAG GCGCCAGCGG CAAAGAAGAC CACTGCTTCT	960
	ACCGACGCTT CTAAGAAGCG GACGAAGACT AGAAAGGAGA CCTACTCCTC TTACATTTAC	1020
35	AAGGTTCCTA AGCAGACTCA CCCAGATACT GGTATCTCGC AGAAGTCTAT GTCCATTTTG	1080
	AACTCGTTTG TGAACGATAT CTTTGAGAGA ATCGCGTCTG AGGCATCCAA GCTTGGCGGC	1140
	TACAACAAGA AGTCTACGAT CTCTGCTAGA GAAATCCAGA CTGCTGTCAG ATTGATCTTG	1200
40	CCCCGTGAGC TAGCCAAGCA CGCGTGTCT GAGGGTACCA GAGCTGTTAC CAAGTACTCG	1260
	TCTTCTACCC AAGCCTGAAT GGAATCATT CTTAGAATGA AAGAACTTCC TTCAAGAAGG	1320
	TTCTGTCAG CTAGTCTTG TGGGACCGC CTCTTATTC AGAGCAGCTG CGGCAGAGCG	1380
45	GTAATGGTA CGTTCGTTT CATCATTTTG TATTATTAET ACATGTAGAA ATAGGGTTTT	1440
	CTGGTTTCAT AATTCGGTAT AAATCCAAAC GTAATGTATA TTAGATAAGT TTAAACTAG	1500
	TAATCGGAGA GCTTCTTTTC AACCAGTCT ACCTTGCTT GCGCAGTCTG CTGTTTGCT	1560
50	GTCTAGTTC CGAGCTCAT TTGGTGTTG ATTCTAACGT ATCCCAATTC GTGGCTGTAC	1620
	TGTGCAACT GCGCGATGAG GCTCATGACC TGTGCCAAG GCGCCTCAAT CGTCGTTCCA	1680
	AAGCTGTGCA TAGTGCTTTT CAAGTACTC TCCTAATTC GTTCTCAAT CTTGGTGACA	1740
55	TAGTCTGAGA CACTTGGTGA GCTAGTACCT AGCTATGATT CAAAAGTTTA GTATATTGTT	1800

	TTATATATGC AGCTGGAGAT GTGAACATAC CGGCACCATG CAAATGTCCA CTAATGTGTG	1860
5	CAGCTTCGAC ATTTTGATTT CTACCTTCAG AGTATTGGAA TATGTTCTTG TATGTAAAGT	1920
	CTACTAATTT TCTGGTTTAT ATCGCTGATC TTAAGGGAGA TAAITTCGTT CACCCATCAC	1980
	ACAGAAGTTT TAAGTACAAA ACTTGTCCCC AGATATAGCA AGTCATCAAT TCAGGTATAA	2040
10	TTGGTGTGCA TGCTAATTTG AAGGGCTGTT ATATAGTTGA AGTGTCTCTT TTGGCATTGA	2100
	GCCAAATTTG GATTTCTATC AGTAGTATG AACATCAAGT CTCCAAAGCT GAAGTCTGAA	2160
	GCAAACATC TCAATAGCTA TAGAACTCTA GCAAACAACA GACCAGAGCT TATATCATGA	2220
15	CACATTATAA GCTCAGCTAT TACTCTGAGT GATAGAGTGA CCTCAATTA GTTGGTTCAT	2280
	TTTATATATA AAAATATAAA ACTATAGCTA TTTCAAATGA CTAATACTA ATACGAGAGA	2340
	AGAAAACAAA TTAAACACGA TGGTCTACAG ATAGCTTGAA AGAGACACTA AGAGAAATTT	2400
20	CAGGAACAG TTCAGAAAAT AGCCATTGAG CTCTACAGCT CTCITTTATTA TCAAGAGTAC	2460
	AGTTTCTTTC ACTAATATCG CTTAATTAAT TATATTTCTT GCCATTAAAT GCGACGGTGA	2520
	CGGGATAACA ATTTTGGCA ATTCTTCATA TTTTGATTTA AAAAAAAAC AATTTACCAG	2580
25	AATTAGACGA AATAGTCGCT TACTACAAAC AGGTTGAGC ACTGGATAAA TCTCATAGTT	2640
	TAAATATTG AGTTACAGAA ATTGGCTTAC AGAAAGCACT AGCGATTAGG CCATTTGCCA	2700
	TTGATTTAAA CATGAACTAA CGAACCTCCA TGAATTACAA TAACCACAAA TTAAACCGGA	2760
30	CAATTAATTT TATGTAGCAG GCTCTGCCAT GGAATAGCT TTACGTGAAC AGGATATTTA	2820
	ACGTATATCC TTGTTATGAT AAAGACTTTG ATAGGTGCTT ATACTTGCAA GTTCATATTT	2880
	TACAGTTAAA TATCTAAATT TAATATATTA CGCAGTTCAC GCAATGTAGC ACGTGACATA	2940
35	AATAUGAAAT TTAATATGTT CTGCTTTTAT TTAAATAAG TTTATAAAGT TAGTAAAAAT	3000
	ATCAGAGTAT ATATATTTAA TTAAATAATA TCCTAAAATA TACTAATACA ATTTATCAAT	3060
	TAAGCTTTAT ACACTTTATA AATAGTTATA ATTATAGATG TGTATACGAT TTCCGAAACA	3120
40	TAAAAATATT TCACTGCTTT CGTGAAAAAT AATTTTTTTA TTATAAAACA ATCCCTAATA	3180
	TAGTATTACC TCCAATTATG AGTCTATGTT AATATATGAA GTACTACCA AATTTACCAC	3240
	TGATTTTCA AAAAAAAAC ACCATTTTTC AAAAATATTT TATTAACCTGA ATTTTTTATA	3300
45	ATTAAATTTT TTATATCTAT ATAGAATATC TATTATACGC AAGAAAAACC AAAAAGTACC	3360
	CTATAAGTAG GTACCGCTTG TCCACATTAT AATAAAAAAA GTGAAGTACT CATCAATACT	3420
	TTTATTTAGG ATACCTGCAG TCTAATATCC CTTCACGTAA GTTACTTAGT GCACAATATT	3480
50	CACAGTGAGT TAGTAACCCG GTTCAGATCA AGGCATACCG AGCTTTCTCT TCTGGCTTCA	3540
	TATGCTTAAA GAAAATATCA GGGACGGTGC AGTTAGCTAA AGCTCTCTTA GCATAAGTAT	3600
	TCATAAAATTT CAAACCTAAG ATATAACTGG AATTGACCCA GCCAAATCCT TCAGTAGCAA	3660
55	CACCTTTAAA GTCTGCACTT TGGTTACCAT ATTGGGCATC AACTCTATGA GGATCTGTGC	3720

CTCTGGTAAC GTCGTATTTT TCTACTACGA TACCATTGTA GTGACAAAT GCGTTGGTCA 3780
 TTA AAAAATAA CCACCTATAG GCCAACCTTC TTGCAACTCC TGTAAATCCG TAATTATCTA 3840
 5 ACCCGGTCCA AGCAAGCATT TGATGAGGGG CCAACCATTA AGGGTAATCC CATTCGCTGC 3900
 TTGGTCTATT CATTGTTATC TCACCCCGAG ACTCTCAGT ACAGGCAACC AGGCTCTCTA 3960
 GCATTTCAAG CCGTGGCAAT GCGTTCTCGA CCATAGCGTT GCGTTGTTCC TGGGTTGCCA 4020
 10 AGCCTGCCCA CATGGCCCAA AATGTTGTGT CAGAATCGTA AGATGTTCTC TTTCCAATAT 4080
 GGACATTGTA GTCATAGAAA AAGCCTGTTT CCGTGTCCA CAAATATTTT GTGATTCTTT 4140
 GCTTACGAAT GTCTGCAAGT GCGTCCCAAT GAGAAGAAGT GGTGGTTTCA CCAGCATAAT 4200
 15 CAGTAATACT ATCATCGAAG TACTTGGAAA CCACATATGC AATATCTTTT TCGTACTTGT 4260
 ATAGTAACGA ATTCAAATCA ATCGTCGCTA AGTAAGCACA GACGTTCTCT AGACGGTAAG 4320
 AGGTGTCATG TCCACTCTCA CGTACAGCAC GATCATGCAA AAAGAACTCA TCTAGTTCCG 4380
 20 GCTCGTGTAC TTGCGCGGCA TCGTACATGC ACCTGAAGTC CGGAATCGTT ACAATGTGCT 4440
 TTTCGCGAAA TTTCGCGCAA ATTGCGTCAA AGTGGTCAGG CTCGGTTTCT GGTGGGAAAC 4500
 CGATACCATC TGGATGATAA CATGAAAGAC CCGTGGTTTT GTCGTACCGC GGTCTTGCCA 4560
 25 TCCATACACT CTTGTATTCC TTAATGGCTG CGATGAATGC TCTTTTCAAG AAATCCACAG 4620
 CGGTAGGATT TTGGTCACCA CCGAACTTTT CGAAGACCTT CAAAGCCATG TCGTTAGGA 4680
 ACCGGGGTTG TGACCGACAG AGGTAGTAGC TCCTATTGGC GTTCAATATT TTACCGTAAT 4740
 30 GCTCTATCTC AAAGATGAAA TGCTCAACCA TCCACGTCG TATGTCCACT TTGTTCAGT 4800
 CTAGAAGACC CAAAGCCATT AGGTATGAGT CCCAGCCGTA AAGTTCATTA AAACGACCGC 4860
 CCGGAACAAC GTAGGGAAAA CCAACCAATG TACTCTCACC GGTAAATTGGG TCCCTGTGAC 4920
 35 TCTCATGCG CAAAGCAAGC AACCCCGGGC TTTCGTTCAA TGATTGCACG TGCTCCGGCG 4980
 TGATC 4985

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
- (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GTTTAGTCTG ACCATCTCAT CTG

23

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
TCGCAGACCG ATACCAGGAT C

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
GCTAGGGATA ACAGGGTAAT

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
AGGCATGCAA GCTTAGATCT

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 61 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GTITTTAGAA TATACGGTCA ACGAACTATA ATTAACTAAA CATGGGTAAG GAAAAGACTC 60
A 61

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

GGTATATAAA AATATTATAT GGAAGCAATA ATTATTACTC TTAGAAAAAC TCATCGAGCA 60

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GCGAGATCTG GGTATTTTAC CAATAAT 27

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 29 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

- (A) DESCRIPTION: /desc = "primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GCGAGATCTG ATGAGGCCGT CTTTGTGTG 29

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 508 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
(A) ORGANISM: PAG1001RP

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

	GTGATTGTCG CGAGATTGAA AAGTCCTTAA CAATCAAAAA CAACGGGAAG GCGTACGAGG	60
15	AATGGCTGGA CCTGGGTAAT GGGTGCTTAT GTTGCACTCT GAAGGACGTA GGGGTGAAGG	120
	CCATOGAGGC GATGGTTTTCG CGGTGOCAG GTAAAAATGA CTACATCATA CTTGAGACAA	180
	GCGGGATAGC GGACCCAGTG CCGATCGTGA AGATGTTCTG GCAGGATGAG GGTCCTCAATA	240
20	GCTGCATCTA CATTGATGGG ATTGTGACGG TGCTGGACGC AGAGCATGTG ATGACATTTC	300
	TGACGAGGT GGGCCCTCCG CGCCAATTGC GCGGCGACCA GGTGCTGATG GAAAACCAGA	360
	TGACCCNNGG GNATCTTCAG GTTGCCATGG GGGNGCGGG GNGTGTGATTA AATCNACCC	420
25	TGNAGGCTGN NTAATAATCT TGGNNGGAA AANGGTGANT ATAAGCGGC TTTTTOGGCN	480
	AATNCGGAN TTTNGTANN AAAGNINT	508

(2) INFORMATION FOR SEQ ID NO:17:

30 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 490 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

35 (ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
(A) ORGANISM: PAG1001UP

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

	TGATCCGACC AAGAGCAGGG CTTTGGTGGG GTGAATCTCG AACTCCTGCC CCTGTGTCAG	60
45	CTCACCCTGG CGGAAGTCTT TCCAAAGAAG AGCTTGTAAG AAGTGTCTT CGAACCCTC	120
	GAGCTCAGCC TTGTCCGCA GCGGCGGCA GGTCAAGGTG ACCGTGGACA GCGCGGATC	180
	ATGGTAAGCC ACGTGGGCAT CCGGAATGTC AGAGGCACCA AAAGCATGGA GATTCAAGTA	240
50	CCTTGTTTAT CTCAGATCG CCGAACTTGG TCCCGATAGA TGGCGCGAC TGCATTAATG	300
	CTAGGCACTT TTCTCTCAA CCACAGCGAT TGTGATCAA NGCCTCCAG CCGTCCGAT	360
	TTATCAAAAC AACCNNGTCC GCCATGGCNA GTTGNAGATG GCANGGCACT TTNTTCCAC	420
55	AGACTGNGG CCGGCAATGG GGGGGCACC CGCGACATTA NAATTNIGTC AGACCNAAAC	480
	CNCAATTGNN	490

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 571 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1002I1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

GATCTCCGCA AATTCTCCCA AAATGGTAAG TCGTTATCCA CCTTAAATGC TTGCTGGGGT 60
 AGCTTGTTC CCAATAAATA ACGTGACCA TCATTGAGAT CCAATACCTG GGGGAGCAGT 120
 TCGCTCCAAT CGCGTACTTT CTTTAAAAAC GGAAATAGTT CATGATGGAG AGAGTACAAG 180
 TTTATGTCTT CACCAAAAAC CTCACGAAGA CCTATATCTC CTTGCATGAA ACAAGTGTCTG 240
 AACACTCGTA GTCGTTCCAG CATGGCAGCT GTCACCGAGG CATCCTTCAT GCGACCAAGC 300
 GACCTTTTGA TAATTTCTGT CAGCCATTGT TGTCTCTTTT TCTTTTGGCA AGTACCACTG 360
 GCATCTTTTT CCAGGGGGCA TCTCCGAAC TGGTTGGTC AACAGAATGT ACTGTNTGGG 420
 GNGGGTTTGT GTGTGGAGC ACNITTINGT AAGATGGGC ACAGTTNTGC CGTTTTTGAG 480
 GNCAGGCAGA TMTGAAACAA ATINNOGNA ANTCGNITT CCNACGCAC GGGGCCCCAN 540
 TTCAGGCAAC CTNGACATTN TGAAGTACC N 571

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 521 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1002I2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GATCTTGGAG TGGGCGAGG ATAGTAGCA CGTGGCAGA CATTCACTTT GATCAATTGA 60
 AGCGCTGCT CCATGTCTT GATGAAGTGG GGAATAAATT GCCTATAGAG TTGGTGTACA 120
 AGGGTAACGA CTCTCTTGA TTGCCTATCA AAAGACTGAA AAGGTACGTT CGGCAGCACA 180
 CAAAACAGCG AGTTCGGCTG GTGGACTGTT CGCGTGTACT ACGCAGTACA CATATACCTA 240
 AGATAAAGAG GTTCATGAAT AAGTGGTTAG CCACTATATT CAATTCATTT GGAGGAAATA 300

ATACTACTAG ACGTGGATTG TTGGTGCCAC TGGGTTCOA TOGATAGCTA CTTCAAACCTT 360
 CCGGGCTACA CTAAAAACGG GCGCTCTTGT CTTTCAAGGA TAGAACGCTT CCGGAGTACC 420
 5 TCCCTGTTTC ATGCACAAAA GCGAACTACT CTTGGCACCA CCGCCGGAGG AGACAAACTT 480
 TGGGGCAATC CTTTGAGATT TCGACACCAN TGNAAAAGNT N 521

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 518 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
 (A) ORGANISM: PAG1002RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GATCTACTAA GGAATTATGG GAATCGTGTC TTTTCTTCTT AGAAATGAAT TTGTTTCAG 60
 25 TCGAAGACGA GGTGGAAGAC GAGCGGACT GTTTACTCTT GGGGAAGTTA GTCAAACAAT 120
 CCTAGATTG TATCCGCATG GTATCACCTG AGTTTCTATC TATAGGAATG CTACTATYAC 180
 GGAAGTTGCG ATGCTGATGG GCATGGTTGT CATGAAAAAT AGGATGTTGG CTCGGTTAG 240
 30 ATGACTGMC C GAATACCTCT TCTATGATTA ATTCTTCAA GCGGGTATTG ATTAATGTG 300
 ATCTGTGGC GTATGATGAA ATGACTGCG CGTCATGCG GGTACGCOCT TGGAGTGTTT 360
 GGANITGACA AGAANCGCT CTTAGGTGCC NGGATTCCCN GGGTTGAAA GATGATNGCG 420
 35 AATNCCAATT TNGGTCCAAT AGGAATCTG GNATTATTG TTATTGCAAT NAGGATNCCC 480
 GCGAGGGGGT TNCTTACGA AGAAGGATTA GGTITNIN 518

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 441 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
 (A) ORGANISM: PAG1002UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GATCCACGKG AGTCGACGG CCAAAGGCGG CTGGGCGTCA CGATGCAGGT TATGCTGTG 60
 CGTGACAGA GTGGGCGCG CTGGATGAAG CCATAAGAC TATTGACCA CTATATAATA 120
 55 CCAGCTGGTT ACATGATACT ATATGGTCAT AGCATCAATT GTAGTAGCCA GGGCAGTGAG 180

GCTATAGCAG CTGGAAAGGC GACTCTGAAA AGGGATTATAT GCCAAGAGCT TCAGAAGTGG 240
 ACTCAGGCCA CGCATCCAAC GGATTCTTCC TCAATTCCTC TATATTGAGC CAGAGCTCCA 300
 5 TCTTGACCGA GTTCCCTCAT TCATATTTCAT ACGAGTTACT TGAACATCCA ACAGGTGCCA 360
 TATTTAGKIT GGGGGGGTAA GTACAATANC GNTGNGGCC GTGGAACCCG GTCCCGTTCC 420
 CNGGGTTTTG GAATTTTNG G 441

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 513 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1003RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GATGGCTCAT GACCAAAACA ACGAAATCCA CTACATTTCG CTGOCACCTG CTCACCCAGC 60
 GAAGTTTGGC GACGCTGTGA ACGAAGCTCT CTCTCTTAC GATGACTACA ACTTCGATGA 120
 CGTTCTTCCA GACCGTCTAA GACGCTAGG TGACCTTGAG AAGAGAATTA AGTACGTGGA 180
 30 CAACACCGAC GTTGATGTTA TCAAATCTAT CATTGAGGAG GAACTGATTA ACATGGGCAT 240
 TTACAATCCA TAGATGATCT GAACTCTAGA TGATTTATAG ACTATCTAGT TAGCCTTCTA 300
 GTCTATATA CCTAATTCCA ATAGGCAGGG GGGCCTATGT CAAGTTTAAA TCCATTTTGC 360
 35 CTCTACTGCG CGCAACGTGG TTTTGTGCAA AGCCAATTTT GCGTGGGGG CCAACTTCAC 420
 CTCANTACC AGNCTGNGA GTCATCANCA TTCCCCGCTN TAGGCCCCAG TGANTAGAAG 480
 TGGTCTAGGT CGTTCAAGA GGAACATNAA TNT 513

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1003UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GATCTTTAGA CAATTATGAC ATCCAAGTTT GGTCGGTTCA GACTGGTCAG TTGCTTGACA 60

CACTCTCTGG TCACGAAGGC CCAGTCTCTT GCTTGTCTTT CAGCCGGGA AATAGCATAC 120
 TAGCCTCTGC CTCTTGGGAC AAAACTATAA GAGTGTGGCC GATATTGGG CGGCCCCAGC 180
 5 AAGTCGAGCC TATAGAAGCA TACTCTGATG TGCTGGATAT TTCCATGAGA CCTGATGGTA 240
 AGCAGGTGCG TGTCTCCACG CTGAATGGTC AGCTGTCATT CTTCGACGTT TGAAACCTCA 300
 CGGCAGGTTG GCAACAATTG CTTCGAAGAG GGACATCATA TCAGGACGCC ATTTAGAGGA 360
 10 CCGGTTTACT CAAAGAACTT CGGCAACGCG CCAATATTC ACAACAATCC ACTACAGTTC 420
 GCGGCTTTTC AATGNTGGAG NTGGANAAA ATCTNTTGGT NTAGAATCCN ATAAGGGTAT 480
 AANCGTCATG TTCCANAAAT NATC 504

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 530 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1004RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

GATCTTAAAG AGGCTCAGTA TGCAGAGGCA GTTTCAGAA GAAGACAGGC TGGGCTTCGA 60
 AATCCCTCAG CTCCCGCCGT GGAAGAGTCC GCAGATGAAG CAACACACAC AACAGGGCCA 120
 GCAAACGCG CTGCGGCGGC CGCGTGCAT CCTCGGTGCC CTTTATGAAC CGAGCAGGGC 180
 35 GTGTCCTACT GGTGCAGGCC AAAAGCGCGA CTACGACTAC TCCGTGTTC AITGAGAGCAG 240
 GCTCTTCACT GAGAGCAAGA TAGACCACTA CTTGAAGAGC GAGGCCGCAA CGCACAAACG 300
 CGTATTCCAC CCGCGACCGC CCCCACGAG ACAGCTACCC GCCCCGACTT TGCAGCCCGC 360
 40 TCTGCTTGGG ACAAGCTTGG GACGANGAGG GAGAGCCCN CCCCCCTCNC AGAGNGCGCN 420
 TTINGAACC CCNIGGNTG TTCATCATCC CCCCANTCCT CCAGGAGAGT TTINGAAAGG 480
 GCGCCCCNA NACNCCNTAG GATTCTGGA GGATGGAGTN GGGCCCTTTT 530

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1004UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

5 GATCACCGAG OCTAATGAGT GGTGCTAGGG TAGCGGTAT TACCGTACT AATAGGTATG 60
 TTAATATGCC ATCAGTGTCT GAGCTCAOGA CTGACATATA TTAGCAATCT TGGCCTGAAT 120
 ATCGCATACA GGTGTATTGA GCAGTTTACT GATGACAGCA AGTTGGTTAT CGTGGTAACA 180
 TCGCGTACGC TGCCAAGAGT AAGGGAGGTG GTAGACCTAA TCAAAACATA CGCCGAGAAA 240
 10 TGTGGYAAGT CTGGAGCAGT AGATTTGAC TACCTGCTGG TGGATTTCAC CGACATGGTT 300
 AGTGTGCTGG GCGCGGCATA CGAATTAGAA AAACGATATG ACGCTATACA TTAATTCTAC 360
 GCTAACGCTG GCAGGGTGTG TATTCCTCGA ATTGATTGGT TGGGTGCACC NGGTGTTTAC 420
 15 GGGATCCNCG GGTGTGTGAT ATCCNCGTA GNCNCGGTG ANNAATCAGG ATGGTNGGTT 480
 AGTTTCAAGC ATTC 494

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 529 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1005RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

35 GATCTCCCC AGGAACCGG ACGGTACGC AGTGTGCTT CTTCACAGCG TGGTGTGAC 60
 GAATTCCATC AGCATGTGGA ACTTCAGCGC GAACATCTCC TCAAGCAGGA TCCGCTCTT 120
 CCTCTCTCTC TGGGGCCACC GAGAGCTCCG CCAGCTGCTG GCACCCGTC AGGAAGCACT 180
 CCGCGCGGTT CCGCTCGGC CCCACCTCCC TGAAGCAGCC CACCAGGAGC CGCCACACCA 240
 40 TATCATCCCC GAGCCCTTGG TTGAGGTGTA AGTTGTCTGC CCTAATGCAC CGCACAAGCA 300
 CCTTCGGGAT ATCCCAACCC AAATCTCCCA CGAGTGCAGG GTGCTCCCGG AGCTGCTCCC 360
 ACAGCGCCTC CAGGAAGCTC GCCAGCGGC CCGGTGACC GCTGCAAGC GCTGCTCCG 420
 45 CGCACAATC GATCCCCGCT GCGAGGAGA TCTGTGCCC GCTGCTCCG CGAATAGCAC 480
 GCCCAGACTC TCACCTTCG TATTGGGTGG CGTTTCATAG AATCACTCT 529

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
(A) ORGANISM: PAG1005UP

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

GATCTTGCAG TTAACGGTTC TTCCATCAAG GGACAAATGG GCGTACCGAA GCTCTTAGCC	60
CAGCCAAGTA TCCCACAGCT GCACAATGCT AAGGGTGAGG TAATTGATGT TCAGTCCCAG	120
CCCCCGCGG GCTGGGGGCA GGTGCTACTA NAGCATGGCC CAGAAGTATT TGCGAAGAAG	180
GTGCGTGAAT TGATGGAAAC ATTGCTTACA GACACTACAT GGAGAGATGC CCATCAATCA	240
TTGTTGGCAA CTAGGGTGGG TACTTATGAC CTAGCTGCTA TTGCACCTAC CACTGCACAT	300
GCATTAGCAG GAGCCTTTGC ATTAGAGTGT TGGGGTGGCG CTACGTTTGA CGTTGCCATG	360
CGGTTTTTGC ACGAAGACCC ATGGGAGCGC TTGAGGACAC TCGCGAAATT GGTGCCAAAC	420
ATCCCATTC AGATGTTGCT TCGTGGTGCC AACGGTGTG CTTACTCCTC TCTGCTGAT	480
AATGCGAATG ACATTGCTCA AACAAGCAAA GGAGAATGGT GTC	523

(2) INFORMATION FOR SEQ ID NO:28:

25

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 567 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

30

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
(A) ORGANISM: PAG1006RP

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

NNNNNNNNN NNNNTGTGGG GCGTGGTAGA NTAGTGGGTC TCGTAGACAA TGGATGCCTG	60
TAAGCATGTG TAACGGGTAT CGTGGAGGGG TCCCTTCCCG CCTCCGAAGC CTTCTTCGGT	120
TTCTCAATTT CCCATAGCAA TGGGACTCG CACCAGTAAA TCTCTCTCTG GGTAGGCTCC	180
GCTCATTAGT CGAACGGTTC TCCGTAGCCC ATCTCGTCC AGTTGCGCG CCGCGAAAAC	240
AAACAAACAC TGGCGGCGG GATAACGTCA GTAGCTATGT TTCAGCAGAT TCCGCGGAAA	300
CGTCCAACA GATCGTCTGT AACCGGTGCA GATACGTCTG GGCAGCGGGT TTAACTGCA	360
GCCAGTGAG ATTTAACGTG CGATGGAAGC CTGCGCGCGG TTCTGGCTGC CCGCCGGTGG	420
CTCCAGCGGA GCGAGCGGC GCGTCGGAT GCGCGCGTA AGTCTGTGAT CGCCGGGAGC	480
TGAGTAGCG TAGCGAAGGT CACACGGACG CCGGATAGTA GATGGAGCAA GGGGCTCTTT	540
TGGACGGTTT GGTACGAAA TNCGGG	567

55

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1006UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

GATCTCTGTT CTTTTTTTAC CTCTGAAGGT GCGAATGTG TCGCGTGAA ACCACTCTTT 60
 CGCGATGGSA TGTTTCTGA TCTCCCTGC GAGCTGTTT ATGTACTACT TCCTTGTAAG 120
 GCAATCCCA CCGAGGACAG ACCGAGCTGG TCCCAAGGT TTCTCCGGG TGCTTTTGCT 180
 GAGATCGGT CGCATGTTTT GACCCAGCT CTGGAATATG CGCGCGGTG GATGCTGCGT 240
 GTGTTACGAT GCAACGTCAG CGATCCCGCA GGGCGGGGT GCAGGGGTGT ACTTCGATCG 300
 TAGGCCGCTG TAAATGCTCC TCTGGAGCG CGCTCCCGC GATCTTACTG TCCGCCATGA 360
 ACCATGGAC AGAGTAGCG GGATGGTTCC CTTTCCAGAT AGGAAATCTG GAAGAATTTC 420
 GTCCCGCTCC GCTGATTTC TTTATACAAA AAATTGGCCA TACATTCTT G 471

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1007RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GATCTTCTCG CCGAAGTACT GCACCATGTC ATTCTCTCC GGTTCACCAT GAACAAGGAC 60
 ATCTAGGCG ACCTCCTCT GGAAGCGAT GACTTCTCA ATCTGAGAAT TGATGAAGTT 120
 GGTGTACTCC TCCGTGGAAA TGCCCCCTT TGCATGCTTG TTCTGTGTA TCCGAATGTC 180
 CTTAGTCTGT GGGAAAGAAC CGATGGTGGT GGTGGGAAT AGCGGAGCT TGAAAATTGG 240
 CTGCTGCTCC TTGAGACGCT CCGGAATGG TCGGCTCTC GTGGATAGCT TCTCGTTCAA 300
 ACCAGCAACA CGTTCTGGA CAGAAGGATC GTTGGTGAT CGCAGGCGG GGACGCGCAG 360
 CAATCGAGTC TGCAATTGGC TCCAACACAG AGGAAAAGTC TTGCCAGAG CGTCCTTAGC 420
 GAGGAAACAA ACTCATGCAG TTCTTGGTTG AAAAGAGAAC CAGCCTGGCT TTTTGTCCAA 480
 GGAGATCGTT TCCAAGTAAC TGGNITGAA NAAAGAGC 518

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1007UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GATCTTGTG AGCTCGCCAT GACAGATGAG AATCCGACAG CACGTTTCAC GGCATTTTAT 60
 GCGCTGGGCG TAATTAGTAA AACGGAGGAA GGCTGTGAAC TATTGGACGA GTTGGGCTGG 120
 GACTGTGCA TCGATGTTG TCGCCAGCCA GTTGGTATTT GGGTACCAA TAACATCACC 180
 ACCTTTCTCA GTTATCTCA AGAGAGCGTC GAGAAAACAA CCGTTTCGGA AGGTATCGAC 240
 CAATTTGGAC CACGGAATT CCGGAGGAGG GACTTCCCC CACTGGAGGG TATCACAAT 300
 ACAAGTTGAT ACAATACTCT GAAAAGGTAG GAAAGGGATG TCCTGACAGA CAACCAAGAG 360
 CTTAAATCCA TCCTCGACA CAGGGGTAGA CAAGTGANTG NAAGCGNGA TTGATCTTCC 420
 CATGGAGNTC CAGGATGACC AGCTCCCCAA GATTTCGGTT CGTGGGAANC GGAATCATTT 480
 NTACACAGNG GA 492

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 595 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1008I1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

TCGAGTCATT TCTTGTAGTC CAGTGCATCG ACAAAGTGT CTGCTTCGCC GTTGGCATAC 60
 GTTATTTGCG TTCCATACTC GGCATCATCA GCGTCTCAA GCGCGAAGTG AGACAACTCC 120
 TGGCGCAACT TTGTCTGGGC GCGAAGCATC TCCAGGGGAC CCTGCAATG ATAACAGGAT 180
 CCGGAGCGAG TCGGAAGTGG CCTTGAGGTT CCGCGAAGA GCCTTGATTT CTTGTGTACC 240
 CCGCGCTGC AAGGAATCTA GGTGAGGAGC ACGCAGTGA AGCAACCACT TAAACCACCA 300
 ACGGATCGCT GAGCTTTCTG TCCAAACGTC AGAGGCCACC CGCTGGCTCA CGATGACAAA 360

ACAGTTCATT GANCCGNAT GGAAGNGAT NCATGTCCGN NANATTCTTT NNTTCTTTCC 420
 TCGGACCANG NGTNANAAC NACAGTCCCT GAGGANTTCC TCACCTANGT CNGCCGAGGG 480
 5 GATNNTTICA AGCGCGCNC GTCTNCCCC CTGNCCTCG NNNACCTTCT TTGTNNNGG 540
 TTTTCTTTN CANNCCCC TNNNNCCAC TTNGGTTTT NNAACNCNTC NNNAC 595

(2) INFORMATION FOR SEQ ID NO:33:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 680 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDELNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

- (vi) ORIGINAL SOURCE:
 (A) ORGANISM: PAG1008I2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TCGAGACCGC ATCAAATATC TGTCATTATG TAAATGTGCA TATTATAGAC TTCTATTTC 60
 25 AGTACCAGGC AATTGTGTCC GATAAATGAG GTGCAATGAG CACCCGTCAT CACCGGACGC 120
 GATAAATTTT TTTTGGGGG TCAACCATT AATCTACGTG CATCTAACGC AAGGAGCAAT 180
 TTAGCTAACA ACTCTCTTA TCITAAGAAT CCGGTATACC TCCTCTTGGC ACATCTTGGC 240
 30 CTCTTTAGT CTCGAGTCTT AACTACGTTT AACAATGTCA GCGTCGATA AGATGTACAT 300
 GTGTATAAC AACATACACA AACTGTGTCA GCAGGTAGCT GGCCAAATTA TGGAGCGTGG 360
 TGACAGACCG GACGTGATTA TCGCCATTAC CGCGGCGGC ATGATTCCTG CAAGAATCAT 420
 35 CCGGTGTTT CTCAAGGTCA AGGCCAGAA AAACATCCCC ATCCAGGCGA TTGGGTCTTT 480
 CTTTGGTACG AGGACTTGG TTTGAAGAC GGGACGAAA GCATCGGCAA GGAAGTTATC 540
 CGGATCAAGT GCTAGACTT TGGGGCCTT GGGCAAACAC TTTGGACTCA ACTGATTGGA 500
 40 AGAAGGTGTT GGATTGGCGC CGAGTTGGNC GANACCCNGA CAGTCCCTA CCGTTGTINAC 560
 CGANMTGGGG AGGGGNCAN 680

(2) INFORMATION FOR SEQ ID NO:34:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 509 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDELNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

- (vi) ORIGINAL SOURCE:
 (A) ORGANISM: PAG1008RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GATCTGTCTT GGACGATATC AAGTCTATG CCATCTTCCA AACCGTCTTT TCCACATTGC 60
 AACAAAATGA CTCTACAAAA TACCAGTTAG TCCTAGAAAA TATGTCACAG GACGAACAGA 120
 5 TCACCTAGC ACATATTACA TCGTTATGAG CACCATAAAT CTCATAGICT TCCTACTTTA 180
 TCTTTAATAT TAATAGTATG TGTATGCCAA TCGGCGCGTT ATGCCCGGGT AACAGTAGTT 240
 TCTTTTCTN GAACATCTGA AAAATTTTAC CCGATGAGCT CTCTTGTGTC AATGGGGCAT 300
 10 CGAGCTACAA GTGCAGGTGT ACCATTACAA TCCCTATCGG NATTCGGCTG TTGNTAGAGC 360
 TGTAAAATG ATTGCTTCAG AAGATACGAG GTCTTGGGA GTTTTGGGCC CGATGAACGN 420
 GGTCGCATTC CAAGCCAATG CGTGGAAAGG ACTCATTTAA TTTTCANNGA CCNGNAGAAT 480
 15 TAANGGNAAA GTCANNGTA ACCNATTGT 509

(2) INFORMATION FOR SEQ ID NO:35:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1008UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GATCAAGCGG GAATTTGGGC GCAAATGCAC GTTAATGCTC ATATTGTTAA CAAGCTGGGG 60
 GCAGAAGTCC GCGTTTGGG GCTAGAAATT TCCACATTGA AAGCGTTCAA TAACACATTA 120
 35 GAGGAAGAGA AAGCTGTGC AGAAGATGAT ATTTTGAAGC TGCTAGAGGA AAATCACACT 180
 GTGCATCAAT TGAAGACTAC CAACGAAGCG TTGACTACCA AGGTAGCCGA CTATAGCAAT 240
 AGACAAGATA CGATTCTCCA GCTGTTGGGC GAAAAGACGG AACGTGTAGA GGAAC TTGGA 300
 40 AAATGACGTC GAGGACCTCA AGCAGATGCT GCGATGCCA GCACAGCAAC TTGGCCGACA 360
 TGCAAGAGAG GTTAAGAATT TAGATTCCA TATCTTATTA ACATTATINA TNCANCGGC 420
 TTGGGTTNGT TAATCAACTT CACCAGATGC NTAGATTGCG GTAGTTAGNC ANTTTTTCGA 480
 45 NGTGGNTCAA ATGGNGGCC 500

(2) INFORMATION FOR SEQ ID NO:36:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1009RP

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

GATCTTCGCT TGGGGCCGTG CGTTCACGGT CTTAGAAAGC AAGCGTGCAA GCGATGTCTT 60
 GCCTACCCCT GGGGGGGCCC ATAGTATCAT CGAAGGTATT GTTCCTGGC TCACATATTT 120
 10 GTATAGTGCC CGCCTTTCCT GGGAGAGAAT ATGCTGTTCG CCCACGTACT CCGGCAGCTC 180
 GCGGGGACGA AGTTTCTCAC TTAAGGGCAA ATGTGCCATT TTCTGCAGCT CACGCTGATC 240
 TGAGTTCACC GCCCCGTGTG GACGTGCCCC CTTCCTGTGG GGAGAGTGGT CCATCTCTAT 300
 15 CACCTCACTA TCCTCCATAT TAAAGTCCGA GATCAGAGAC AGGCTATCCT CATCCTCCAG 360
 CTATGCTTG CCCCCAGCA TCTCAGATAC GGACGTGGTC CTCGCTCCTT TCGGCTCCTC 420
 CTCGAGGAT GCATCTAGAT GGTATGGATG TGATGAATGG AAAGCCTGCA ATCTGGNAAT 480
 20 GGTAAGTCTC CCCCCGTAT CATTTN 506

(2) INFORMATION FOR SEQ ID NO:37:

(i) SEQUENCE CHARACTERISTICS:

- 25 (A) LENGTH: 500 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1009UP

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GATCATGCTA GTTCTGCAGC TGAGTTTTTA AAAACCCAGT ACTGGAGATG TTTCGCTTTA 60
 TGGTATCGCT CCACTAGCCG ACGACTGAC TTTGGTAAAC GGCCTAGCAC TGATGCCGGT 120
 40 ATTTGGAACG CCGCTCTAA GAAGCTTGAG TTCGCACCAT CAATGAAGG AGCGCAAGTC 180
 GAAATTTCCC AGCCTAGAGG CATGTCAGTA GGGTCAAATA CGCTTGTTG TCGATCGCTC 240
 TGCATCATGA TATGACATA GTAGTCGAC ATATCGATGG AGACGACCTT GCGGGGTCA 300
 AATTGTGTAA ATTGGTTCAA TCCTCAGGC ACTTGGGTGA TAACTCAAG TAGCGGCATT 360
 45 TCTTCAGGGA AATGCCCCG TAGGAGGGCA TCGAAGNCAG AGTINGACGA ACCNCAGGCG 420
 GGGGANTCT TTGAAGGGAG AAAGAGGCCG GGAANTGTA CCACTCCGCT CCCCNCANA 480
 50 AGTTGGCCCC AGCCTCAATN 506

(2) INFORMATION FOR SEQ ID NO:38:

(i) SEQUENCE CHARACTERISTICS:

- 55 (A) LENGTH: 627 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1010I1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

10 TCGAGCGGCT TACGTGGGTC CACCTGAAGA TGCGGCAGAC GCGGCACGGG GAGCTGGTGC . 60
 GGGCGAAGCC CACCGTGTTC CCCCTGCTGC TGGCGAAGTT TCTCAGAAAC GATCTGTGCG 120
 TGACCGGGGC TGGATGGAG GGGCAGGAAG CGAAGTGAG CGAGGTGCAC GTGCTAGTAC 180
 15 CGAAACACA CGCCGCGCTG GCGTCTCTCC TGCTTGACA TAGTCCCGTG GCGCGGGGTG 240
 GCGATCTTGG CATCACCTTT GCGACATTT TATCGTTGTC CCTGCAGGAT GCACTAGACG 300
 CCGCCAGTT AACGACAGCT GAACCAAG GAAAGTTAGA GGGTGACCTA GTAAGCGCTC 360
 20 TGTACATAC AAAACAGCTA GAGCGCCCGG TGGAGTTCTC TACGACTGAA TTAATACGA 420
 GGTACCGACT TGGGACAAA GAGCGTCTA TGGATGCTT GGCTGTGCG TGGAGATTTC 480
 CTGACAGATT TAAAGATGAC GATGAGGTAG AATGACATTT CTGTGAGGG TCTCAAGTGG 540
 25 GATGAGAGGT CGGCATTTTC GAAGGAGNNT GGTATTATNAN NANATCTTGG ATTTTCTGAG 600
 GGGCTNAGN TNCAAGAAAG TCANATN 627

(2) INFORMATION FOR SEQ ID NO:39:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 628 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1010I2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

TCGAGGTGGC GGGCGGAAA CCCCTGGCA ATCTGGCT CCAGCGCCG GCTGACTGG 60
 15 GGTACCGTCA AGCACTGAA GTGGCTCGC TCAAGATAAT CCACCGCTC GTTGGCCCG 120
 AGCCCGGAC TCCGTGCAC ATCCCGGGG ATCAGCTGA ACTCCCCCG GCTCAGCCAG 180
 AGTCGGTGT TGGCCACCG GTAGTGTAC TCTCTGGCA GCGCTGCT GCTCATCATC 240
 50 AGCAGAAAGT CGCCCTCTGT GTGCACATC TTGATGAAA CCTCGCGCC CTGAGCCCG 300
 GAGAATGCT GCAGACCCC TGCCACGAG GCTCTCTCT CTGCGGTG TCGCGACTT 360
 CCACTCGGC AAGCACCATC GCTGCGCTC CCGCGCCCG CACCGCCCG AGGTGCACC 420
 55 GCTGTACCC TGNACGGT AGTGGTCATT CCACGCGCG AACCTCTC AAGCTGACA 480

TGTTCTTGGG ATCTTTGTTT GGAGTCATC AAAATTGTGG ATTTGAAAAA CGATACAATA 540
 5 NAGNGGCTCN GGGGTNGAAA GTCACACNA TCACTCTGGT TCAAAGCATG TCTCAATNTG 600
 CGGGGCATAA CCAATTGCNC GGTANGCA 528

(2) INFORMATION FOR SEQ ID NO:40:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1010RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

GATCCGCTC GCAAAGGAGA AGATAGAAGA GCAGAAAGAA TACCCGGTGC AGGAGTTTGA 60
 CAAAAAGCTG TATCATAGCA ACCCCGCAAG GTACTGGGAT ATATTCTATA AAAATAACAA 120
 25 AGAAACTTC TTCAAAGACA GGAAGTGGTT GCAGATTGAG TTTCCTCTC TATACGAAGC 180
 TACCAAGAAA GATGCTGGTT CAGTACTAT CTTCGAGATT GGGTGTGGTG CCGGCAATAC 240
 CATGTTCCCG ATCTTATCTG CAAACGAAAA CGAACACTTA CGCGTGTGG GTGCGGACTT 300
 30 CTCCCGAAG GCGGTGGGAA TTGGTAAAGA CGTCGCAAAA CTTTAACCCC TCGAATGCCC 360
 ACGGACGGT ATGGGACTTT AGCCAACCTT GATGGTCTTT TGGCCGATGG TGTGAGGCC 420
 CATTCGGTCG ANATCGNAGN AATGATTTTN GTTTTAGTGC CTNGGNGCCC ACAGGGGGCC 480
 35 AGGNINIGGT TATTGGANAA AGTCTTANAC AGNNGGT 517

(2) INFORMATION FOR SEQ ID NO:41:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1010UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

GATCAGGACA GTAGCAGCTT GACTGAGTAT CAGCAGGAAA AGCCTAGCTA ATTGGCGCGA 60
 GTACAATTAC AAGTACCTGT CTGACTACTT CTTTGGGTGG GATGCCATAT TTTTATAGAT 120
 55 GGCTGCAAC GGGCGGTGG GGGCGCATC CAAATTTATG GAGTTGAAGA GCTGTTCAAT 180

GCGCTTTTATC CCATCTGCAC CGTCTTTTATC GCGGAACATG GCATGCCAACT CTTCGAAGCAT 240
 GATATCTTCT TCTCTGTGCT CTGATCCGGC GTTGSTGCTC GTTTGGGCAG TCTTCGTAGG 300
 5 CGCCATTCTT GTAATGTGTA AGCTGGTCTT TGGTCATCTT CAGACCCCTCC CGTCAGGAAA 360
 TATCAAAGAA ATCGGCTTCA CTAATATCTA CGCCTCACTC TCGAAAAATG TCGAGGCTC 420
 TTCATCCCCA GCTGAAGGAC CCTGACCAGA AAAATGTCAA TGGTACTCAA CGCAACTTTA 480
 10 ATNTTINCAAG AN 492

(2) INFORMATION FOR SEQ ID NO:42:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 620 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1011I1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

GATCTGCGCG GCGGATGTTC AGCAGCGACG CGTATCTAAA CAATTTGAA GTTGTCGAAG 60
 GCGTGACCGT TCCAATAGAC CGCTCTAGCT ATTCCAGTA TGACAAATGG TTAAATGCG 120
 30 TAGATGCAGC TGCAGAACGT ACAACTGCTT GGTAGAGCT GTGGATGCT TCGGCCCTGC 180
 AAAACTTCTA CGCTCAGGAG GCGAGGATGA TCTGCAAAAA AATCATCCAG ACCAATGGCC 240
 CCACATCTTT AATTCACTGA GTGTAATGTC CATACCTCCA GTACTACCA GTCTTTTGGT 300
 35 TTCTCTGGATG TCAGATACCA GACTATGTAC TGAATAGCGA CAACATTAGA TATCTAAAAA 360
 GTCTGTGGT TTACAATCTT AAGGTGGCT GAAAGAAGAG AAACAATCTT CGAAAACAAT 420
 ACTAAGCGA ATATATCAAC GTAATATGAC CGCTCAGGCT TCGGATAACA TTCCGATATC 480
 40 AGAGGGAGAA GACTCCGCG GNGTCTTGC NNTCNGGCGN AAATTGCNCA GTNTTINATCC 540
 CGNAGCCNC CCAGNGTTC TCANACCCCT TTTTNGNGT TONGNCAAT NAAGGGNGNC 600
 CTCCTGCANT TACCCTANNA 620
 45

(2) INFORMATION FOR SEQ ID NO:43:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1011I2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

5 GATCTCTTGC ACCAGTCCAA ATCAGCGGGG TCGTCCACCT TTCCTCCATA TATGATTTTG 60
 CCGATGGTGT CGCTGACAAG CTTCAGGGC ACCAAATCGG GGTCGACATG CTCCTTGCCG 120
 TTACTGCTCT GTTCAAATAT GTGGTCCAAA AACTTGCTAC CTGCGTGGAA GTCACCATCG 180
 TCGAAGTCGT ACTTCTTGGT GAATCCAATA GCGCGAGAC GGCACCTGGC CATGATAATA 240
 10 GAGTGGAAAC ACAAGAGGAT GAACTTGCTA TGAAGTTTTT CTAAGTGGTT GACATTCTTC 300
 AGTTCTCTG ACTGAGTCGG CCACAGCTCG CAGACTGTGT TTAGAAGGCC GGGCTCACCC 360
 TCGTACGCTA TCTTATAGTT CTGCTGAGCA AAGGAACCAC TAGAGGCTTG CTTTGGGATC 420
 15

(2) INFORMATION FOR SEQ ID NO:44:

(i) SEQUENCE CHARACTERISTICS:

20 (A) LENGTH: 732 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1011RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

30 GATCCAAAGC AAGCCTCTAG TGGTTCCTTT GCTCAGCAGA AGCTATAAGA TAGCGTACGA 60
 GGGTGAGCCC GCGTTCTTAA ACACAGTCTG CGAGCTGTGG CCGACTCAGT CAGAGGAACT 120
 35 GAAGAATGTC AAACCAAGTAG AAAAAGTCA TAGCAAGTTC ATCCTCGTGT GGTTCCTCTC 180
 TATTATCATG GCCAGGTGCC GTCTCGCGCC TATTGGATTC ACCAAGAAGT ACGACTTCCA 240
 CGATGGTGAC TTCCACGCAG GTAGCAAGTT TTTGGACCAC ATATTTGAAC AGAGCAGTAA 300
 40 CGCAAGGAG CATGTGACCC CGATTTTGGT GCGCTGGAAA GCTTGTACGC GACACCATCG 360
 GCAAAATCAT ATATGGGAGG AAAGGTGGAC GACCCCGCTG ATTTGGACTG GTGCAAGANA 420
 TCTGCGCGGC GGATGTTTCA CAGCGACGCG TATCTAAACA ATTGGAAGTT GTCCAAGGCC 480
 45 TGACCGTTCC ATAAACCGCT CTANCTATTC CCAGTATGAC AAATGGGTTA AATCNCTAAA 540
 NGCANCTCCA GAACGTACAA CTGCCCTGNT TANANCTGTC GGATGCTCGG CCTGCAAACT 600
 TCTACNNCNC GAGGCCAGNA NGATNGGCAA AAAAATCTNC AGANCNANGG CCCCCTCCTT 660
 50 TAATCCCTNG ANTNINATNT CCAACNCCN TTNCCCCATC TTTTGNNTTT TGTNTNTAAA 720
 AACCAAATIN TC 732

(2) INFORMATION FOR SEQ ID NO:45:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 641 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
(A) ORGANISM: 1011UP

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

GATCTTCACA CGCACTATTT GTCCAAGGGG CTTCAATCGT CATTGCATTA CACGAAGAAA	60
CAATACTTAC ATGAGAATGG AACAAATAA AACTAAGCGT ATGGTGCCTA ATGATTGTCC	120
15 AGATGGGGGT TGCTGTTCTG GAACAGTAAA TGCTTGGCAA ACTCATAAGA TGTCCACGAT	180
ATAGCAGTTG CAGGCATGTT GCTGATAATT CTGGGTTTTA GGGCCCGAAA GAAACCGGAC	240
CAACCATATG TTTTGTGGAT TGCAGATGCA GCCTTGCGGA ATGTGTCAGC CTCCTTGAAC	300
20 AGCTGACTTT GAACAGAATC TGCACCGCGA ATCTGCAATA CTGTCTTCAC GCAGTCTAGC	360
GGTGTGGGTT ATGGCGGCAC ATGTTGGCGC CCGGATATCC CACCGCACAG ACAATGTATC	420
CAGGGGTTTG TAGCTGGTTA CTCGGATTGA TTATTTTGGT GGATGATTCA ATAAATTACA	480
25 AAAATTC AAC GCTGCGACGG ATTGTTTCATA GCAATAGTTG TCCGGTTATG ATTAGAAAAA	540
CGCTTGAAAT GCCCCTCGTG GGTCAATCCG CACGGGGCAT CCCGCAATGG ANCANTGGGG	600
TGAANTGAAC TCTTTGGTGG GNGNNANCGG TCCNNAGGGA C	641

30 (2) INFORMATION FOR SEQ ID NO:46:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 653 base pairs
(B) TYPE: nucleic acid
35 (C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

40 (vi) ORIGINAL SOURCE:
(A) ORGANISM: PAG1012RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

GATCTTAACC CAACTGCACA AAATTGTCAG TCATATGTTG GGAGGCAGTT TACCCCTTCGG	60
CCGCAAAATA CATACTTCTC CTTAGGAAAC GTCCTCGCT CAGGACTGCA ACTGCATTGA	120
CGAGCAGCAG AATAACGTAG AATAGCTTTC CCAGGCCAAA TATCATCCCT CCACGTACAG	180
50 TCTATCAGCA GTGTACTGCG CTGTGCGAGA AGTGGCATTC ACAAGATAAG CAGAAGTAGT	240
TCTAAAAATC AGTGGTCACC AACGCGAGGC TGCAAAATCG TGTGTTCAT TCCATCTCA	300
AAGCATCCCC TGAAAACAAA GGTTCACAGT TGCAGGTGCC CCCGGTGAT AACAGATGAT	360
55 AATTTATATT TTAAGTTATA TTAACACACA TATACAAAAA GATTTGGTAG TGGATTAATG	420

ATGATTTGCT TAATCAGCGT TACGTCTTGC GGCCTTCTTA GCCAATCTCT TACCGGTACC 480
 AAAGACCTTC TTACCTCTGT TCTTTCTTTG CTTTCTCTGT TGTCTGGAAG CCTTCTCAGC 540
 5 CTTCTCAGCC ATGCCGTATC TGACCAATCT GTANGTTGGC TCGAACTTCT TGGCGTCNGC 600
 AACAGAGTTG TAGATCAAAC CGAAACCGGT GGACTTGGCA CCACCAAAC TGG 653

(2) INFORMATION FOR SEQ ID NO:47:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 650 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1012UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

GATCTTCTC GAGCGCACCA CGCCGCCCA CACAGACTCC GAGAACCTGC TCTTCTGGA 60
 25 GGGCACAAA ACATGCTTCC AGATGTTTAC GCAGCAGGTG GAGGTGCGCG CAGGCTCGG 120
 CCAGGCGAAG ATCTGTGTG GCGTGTGCGA GCGTTCTGC AAGCTCTGT TCGAGCGCCA 180
 AAGCCACTGG ATGCAGGCCA TTGTGTCCGA GGTCAAGAAG TGCTTCCAGT ACAACCACAA 240
 30 GTATGAGAAA GACCCCGACA ACATGCGCA GGAGGAGGAG TGCGCCGGCG GCTGTGTGCA 300
 GTACCTCGTC GCGGTGCGCA ACGACCAGAT GAAGGCGCGA GACTACGCG TCGCCATCTC 360
 GCAGAAGTAC GGCTCCATGG TCTCCAAGGT GCACGAGCGC ACCATCACGA ACCGCATCGA 420
 35 GGAAGACCTT CGACGCTTTC GCAGAGGTG CCAAGTGCG CAACAGCGGC CTCGTGCGCC 480
 TGATCTTGA CGACCTGCGC CGCCCTACG CCGAGATCTT CAGCAAGGCC TGGTACTCG 540
 GCAACCAGGC GCAGCAGATC GCAGACACC TCTACGAGTA CCTGCGCGAC ATCCGCAGCC 600
 40 AGATGAACCC TTGTCTACT CCACCTCGT CGAGTCCGTC ATCGAAGAGA 650

(2) INFORMATION FOR SEQ ID NO:48:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 727 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1013I1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

TOGACGCGA CAGCGTACTT CAATCTGTAG ACAGAAGAAA CCTTGCCCTC TTGGCCCTTC 60
 TTGGAGCCAC GCACAACCAT AATCTCGTGG TCCTTTCTGA TTGGTAGAGA CTTGATGTTG 120
 TACTGCTCTC TCAACTCCTT GGATAGAGGA GCAGACATGA TCACGCGGCG CTCGGAAGAT 180
 GCGCGTGTGA AGTACGCCCTT TCTGGCCCTT CTCTGTGTCG AGGAAACGTC TGCAGACATG 240
 TTAGTACTGT GCGCGGCCAC CAACTTGTTC CACGCACTGG ATTATGCTAG GTCCGCTGCG 300
 GCGCTGGGCC GTATGCCGAG GTTACCACGG ATCGCAGCGC CAGAGACGCT CATTOCCAAT 360
 GTTTCGGGAG CCACCATCGT TCTGTACAT ACCTAGAGAT TGCTTAGCCA TTGCTGATTC 420
 GCCTGGTGCT GGTGAAGAAC CTCTGTTTCA NNATGTGNAN AATCTCAATN GTCGNAACTT 480
 TTTCANNITG TCCCGNCTAC GCTGNACCCN CTNNCNNTCG TNAANCNCCN NNNNNNNCN 540
 CAANCGTTTC GCTANNITNN TCCTANANAC NNANANNNNT CNVNNNNAAN NCCCNVNNN 600
 CACNNTNTTC NACCNCNNN CAANNNNNN NNNNNNNNN NANCCNNNN NATNNTCAT 660
 NCCCCCTTNC NNACTNNNN ANCCNNNNNC TNNNNNNAAN NTNNNCNNNC ATNNNAACNA 720
 NAACNCC 727

(2) INFORMATION FOR SEQ ID NO:49:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 635 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

- (vi) ORIGINAL SOURCE:
 (A) ORGANISM: PAG101312

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

TOGACAAGGT GACCAAGGAG AAGTCCAAGG GTGCCCTCGT GCCATTGGAC GTCCACCCAT 60
 CCAAGGTGTG CATCACCAGG TTGCACTTGG ACAAGGACAG AAAGCCCTTG ATCGAGAGAA 120
 AGGGTGGCAA GTTGGAGTAA ATGCAITCCA CAGTCAGCC AGCATATTAT AAGTAATTAT 180
 GTTCTACCAA CTCTCTCGA TATATAGTAA GTTCAGAAAG TCGTGTTCCT CTAGTGTTTA 240
 TCAGTGGGCA TAATGACTGC TCTGGTGCCT CGCTCGTGGC CAGCCATTCT TGGCGGACAG 300
 CCATGACTCC CGCGGACCAG TGAACAGGCG CGAAATTCGG TTCTCCGGGC CGACCACNT 360
 TGGACTCTTA TTGATTTCCT TCCGCCCTAA GAAAGTAGAC AGCGCTACA TATATGACAC 420
 ATCCCTGTCT GGGTGTTTAA GGAGCACGCG TCTGAAGAGC AGGGAAAACA CGGAGTCACT 480
 AGGCTCTGCT ACGGCTCGAG GTTTTGGAAG TGAGTTTIGN ATTATTCGTC CNVTGAGAN 540
 TGANAGGGGT GGAGGCCGTC ACCCGATCAA CAGACNANCA GGCAATGGIN TGAGTNGNAA 600
 CACAGCNCGG CGAGAACGTG GCAANNTCN ANGNA 635

(2) INFORMATION FOR SEQ ID NO:50:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 669 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1013RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

ANAATGGCTG GTAGTTATTG TTAACCACTA GTTCTCTCCC GAAGTTGAAG TACTTCACAT 60
 AACTCAGCCC CTCGAGGGA CTCATCTCTT CTTACAGAGG CCTATTCAAC TCAATGCGCT 120
 GCTTGTAGTC CTCGAATGCA TCTTGCTTAT TCCAACCTTT GTNGTCTGCA GAGGCTGCTG 180
 CCATGTCAC TGTGCGGCCC CTCAGAATTG ACTGCTCAC GACAGACTCA ACCAAGAATA 240
 CTTTACATT AAGAGCAGCA AACTCTCTGG CGAGCATCTT GCGCTCTCTG CGCATGATGT 300
 TCATCCCATC ATAGACAGNA AGCTGTCCCT GCTGAAGAA CTCTTTCATG TCCGCTGGA 360
 TCTGGCTTAT CAGCGTGGC CGCAGTCTGA TCCTTCTGG CGTAACTGGT CTGGTAGAGA 420
 AGTAGTCCAG CGGTAGNTTC ACCATCCCTT GCGGACCCG NGNCCNNGA TACTCGACA 480
 CANTGAAGGA TTGTGTGNGC ACCCCNAGC ACCCCCGTAT TGGTGTATT GNCACCGNAA 540
 CAANNITTTT GGGTGTCTGT TGNAGGCCAC CCAGGACGNA CCAAAATTTT TCCCGNITG 600
 GAAANCCCCC CAGNCCCAN NNNGAAATT GGNCCCCGGG AATTTTTTNG CCTNGGCNC 660
 CNGCGNCG 669

(2) INFORMATION FOR SEQ ID NO:51:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 632 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1013UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

GATCCTTAC CAGCCAGTA GTGCGCCACA GGAAGTTGAG GTTGGCTATC CGGCTGACAC 60
 GAAGTATATC GACCTTTTGG CAGAAGTTGA CATATGTAAA CGGATTTGC CCATTTGAA 120
 AAAGCTCGA GTCAATACCA TTGTGTTTTA CTCCATTGAT CCAACCAAGC CACATGAGT 180
 TTGCATGGAG GAGTTGAGCA AGCTGGGAAT CTACGTTCTC ATGATTTAT CAGAACAGA 240

CACCTCTATA ATTAGGGAAA CACCAACATG GGATGTAAAA GTATTCCAGC GGTACAAAGA 300
 CGTAGTAGAC TCCATGCAGA AATACAATAA TGTTCTGGGC TTTTCTGCTG GTAACGAGGT 360
 5 CACTAATGAC CGACGAACA CAGACGCATC GTCTTTTGTG ACGGCGGCTA TCAGAGATGT 420
 CAAAACTAC ATCAAGCAAA TGGGATACAG AACTCTTCCG GTTGGTTACT CACCATCGAT 480
 GACCAGGAGA CGAGGGATCA CTGGCCTGAT ACTCCCTTC GGTNGCGTAT CTNCAGANNC 540
 10 TTTTGGCATA ANTTGTCCG ATTGGGCGCG CATCCACCTN CNGACGANCG TTCAAGAGAG 600
 NGGCTTNCNA TTCTNGAACT CCCCTTGGCG CC 632

(2) INFORMATION FOR SEQ ID NO:52:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 602 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:
 (A) ORGANISM: PAG1014RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

GATCAAACTG CCGTCTTGGC GCAGCACGCG GCGCGCGAG TTGGATACGC GGTCCGCGTC 60
 30 AAAGGCCACG CCGAGCGCGC CAACTCCCG GAGGGGCTGG CCGCGGTAGC CCAGTGACGT 120
 GATAAGCAGC TCCAATTGCT AATCCAATTG CTGCTCCAGG TGAAGTACAA CTTGTGTTTC 180
 AGGGGTCAGG GAGTTTTCG AGACGGTCAG CGCAGATATC GCGCGGCGC CGTCCCTGGG 240
 35 GATGTAGAGC GCGTCTTGA GATAGTGGCA CACCCAGGCC TTGGAGTAGC CTTCCGCGCG 300
 AGGAGGGTAT TTAAGTCCGG ACTTGTCTGC GCGGGCGCGG TACGGCAGCA GGTACTGCTG 360
 GCACATGTCA ATGCGGGGTT TGTGCGCGG GTGAGCGGC AGGCGCGGCC ACCCTCGGG 420
 40 CGTGAAGTGC TCGGGCGCGA TGTGGCGCG CAGCCCGCAG CGCTGAGCT CCCACATCTC 480
 GCGCAACTCC TTGNTCTGTA ACTTGTCTGC GAGGAAGTCC CGGCGCCCGA TGAGACGCAC 540
 CTCTCGAGC GCGCGCGGCC GCAACGCTG CAGCGCGTGC GGGTTTGATG TCGGTCTGGC 600
 45 CC 602

(2) INFORMATION FOR SEQ ID NO:53:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 627 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1014UP

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

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GATCAGTGTG CCGGGCGAGC CGGAGACAT ACTGCTGTCA TGTCTATAAC AGGAGCTGCT 60
 CTCGGGGGTC ATTGAGGAGT CCAAGCGTTT TGCAGACAGG GACAGCACCA AGCACATCAC 120
 AGCCGAGCAC CTAGATGAGG CGGTGGAGGC GTTCTGGGA GATGTAGACC GAGGCGGGA 180
 CCGGGCATGG CCTTGATGTA AGTCTATGTA CAGGATATTA GCTTTCAAAA TGCATGGTTG 240
 GGGTACTTCA GCGTTTCAC CATGGAAGG GCGCTGGCG CGTCGTTTTT GTTGAGCACG 300
 AAGAGGCCCT GGAGCTGCGC GTTCGACACT GGGACGCTA GCGCGACGGC CTTGGGACA 360
 AACTCGGCGC AGAGCGCGA GTGTCGCGG TAGAAGCGCA GGAACATCTG CTCGATCTGG 420
 TGCGGGGTG CGTTCGCCAC AAGGACCTTG TAGTCGATGC GCGCGGGG CAGCACGGG 480
 GGGTCGAGGA CCTCGGGATG GTTGGTGGT ATAAAGGTGA TCATCTCTC ACTGGAGGG 540
 ACGCGTCCA GGGCGTTGAG CAGCCCGCTG AAGTGACGC CGTTGGTGTA ACCGTCTGTC 600
 TTCTCTTTC GCTTGACAAA GCGCGT 627

(2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 698 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1015RP

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

GATCCAATTC CAAACGTAAT AACCATGGAG ACTGATGCTT CAAAGACGCC TCGGTCTCTT 60
 CATCCATCAA AGAAAAGTGC AATTGTATTA TTCTCTCATC CTCTTCAATC ACAGTAGAGC 120
 TAGGATCCCC CGGCTGCAG GAATTCGATA TCAAGCTTAT CGATACGTC GACCTCGAGG 180
 GGGGGCCCCG TACCCAATTC GCGTATAGT GAGTGTATT ACGCGCGCTC ACTGGCGGTC 240
 GTTTTACAAC GTCTGACTG GGAAACCCCT GCGGTACCC AACTTAATCG CCTTGACGCA 300
 CATCCCCCTT TCGCCAGCTG GCGTAATAGC GAAGAGGCC GACCGATCG CCTTCCCAA 360
 CAGTTGCGCA GCGTGAATG CGAATGGAG CGGCTGTAG CGGCGCATTA AGCGCGGGG 420
 GTGTGGTGT TACGCGCAG GTGACCGCTA CACTTGCCAG CGGCTAGCG CCGCTCTCTT 480
 TCGCTTCTT CCGTCTCTT CTGCGACGT TCGCGGCTT TCCCGTCAA GCTCTAAATC 540
 GGGGCTCCC TTTAGGGTTC CGATTAGTG CTTTACGGCA CCTGACCCC AAAAACTTG 600

ATTAGGGTGA TGGTTCACGT AGTGGGCCAT CGCTGATAG ACGGTTTTTC GCCTTGACGT 660
 TGAGTCACGT TCTTTAATAG TGGACTCTTG TCCAAC TG 698

(2) INFORMATION FOR SEQ ID NO:55:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 716 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1015UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

GATCCTAGCT CTACTGTGAT TGAAGAGGAT GAGGAAATTA TACAATTGCA CTTTTCTTTG 60
 ATGGATGAAG AGACCGAGGC GTCTTTGAAG CATCAGTCTC CATGGTTATT ACGTTTGGAA 120
 TTGGATCCAC TAGTTCTAGA GCGGCGGCA CCGCGGTGGA GCTCCAGCTT TTGTTCCCTT 180
 TAGTGAGGGT TAATTGCGCG CTGCGGTAA TCATGGTCAT AGCTGTTTCC TGTGTGAAAT 240
 TGTATCCGC TCACAATTCC ACACAACATA CGAGCCGGAA GCATAAAGTG TAAAGCCTGG 300
 GGTGCCTAAT GAGTGAGCTA ACTACATTA ATTGCGTTGC GCTCACTGCC CGCTTTCCAG 360
 TCGGAAACC TGTGTGCCA GCTGCATTAA TGAATCGGCC AACGCGCGG GAGAGGCGT 420
 TTGCGTATG GCGCTCTTC CGCTTCTCG CTCACTGACT CGCTGCGCTC GGTGTTCCG 480
 CTGCGGCGAG CGGTATCAGC TCACTCAAAG GCGTAATAC GGTATCCAC AGAATCAGG 540
 GATAACGAG GAAAGAACAT GTGAGCAAAA GGCCAGCAAA AGGCCAGGAA CGTAAAAAG 600
 GCGCGTTGC TGGGTTTTT CCATAGGCTC CGCCCTGTA CGAGCATCAC AAAAATCGAC 660
 GCTCAAGTCA GAGGTGGGA AACCCGACAG GACTATAAAG ATCCAGCGTT TCCCTT 716

(2) INFORMATION FOR SEQ ID NO:56:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 656 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

(A) ORGANISM: PAG1016RP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

GATGTGAATC GATGTGTGTA GACGAGTGTG ACTAGACACA AGCTGGCGAT GCAGCGAGAT 60
 CTAACAGGAA AGGTGCTGTT TGGGAGAAA AGGTACTACG AAGAGGTAGT CACTAGTGTG 120

ACCTACAAGC CTACACACCA CCAACTGCGT TAGGAAAATC TAAATACGTA CCTCTATCCT 180
 ACAAACTACG AGGTGGCGCA ATTCCAATTC AATTTTGTCC ATCGTGCGTT ATTGAAAAAT 240
 5 GTGCTCTGTG CGATTCCAC AGGTATTGGT AAGACCTTCA TTGCCAGTAC GGGGATGCTC 300
 AATTACTATT GGTGGACAGG GGGCAGAAAA ATTATTTTTA CTGGTCCAC ACGACCACTT 360
 GTTGGGCAGG AAATTAAAGC ATTCTGCGG ATTACTGGTT TTCCCNNTTA TGATACGGGA 420
 10 ATNCTTCTTT GACAAGAGCC NNNNGCACAG GGNACAGATT TGGGNC AAAA GAAAACGTTT 480
 TTTTTCG NAAACCCCCC CANTGGGGG GNAANTTTC CCNNGAGAG GGGGACTTN 540
 NNTCCCNNA GANNVINGGN TTTTCTNGGG NVNNGNNGA NGGNTCCACC CCNNGNNGG 600
 15 GGGGCCACN NCCCCCN NNNGNNTTT NNNNNNTTN TTTTNACAAA ANTTC 656

(2) INFORMATION FOR SEQ ID NO:57:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1016UP

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

GATCCATCGA ACGTCCATTT TATACGACGA CATTTTATA CAATTTTAT TTAATAATGA 60
 GGATTGGCA TTCCCTCAA CTGCTGACT AGAAGTTAGC TGGTCTAGT AGTGTAGCTG 120
 35 GGCTAATGTC GACTGAATTG CCGTTGCCG TGCTGGAGGA TTATTTTGTG TCCGCAGCTA 180
 ATGCTTCTCT GCCAGATGAA TTCCAGTGA AAGAATTGCA AGATGAATAC TATCGACCTT 240
 GGGAAACGAT TGTGAGTAAT CTACCCGCC TATTGTTGGC GGCACAGCTG CGGGATGTGG 300
 40 TGGACCAGCT GAAGGTGCTG GAGGTGAAGA AGGAGCTGTT CGACGATATT TGGCAGGTT 360
 CCGCGCGCAT ATTGGCGTT GGGCTTCAAC GTCAATGCGT ATGTGTGAG CTACGACGAC 420
 GCGTTCGACA CGATT 435

(2) INFORMATION FOR SEQ ID NO:58:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: PAG1017I1